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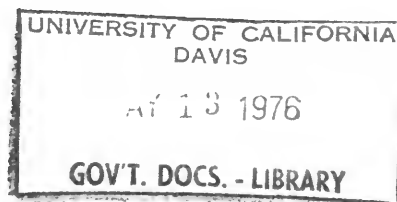
The Resources Agency

Department of Water Resources

BULLETIN No. 130-74

HYDROLOGIC DATA: 1974

Volume II: NORTHEASTERN CALIFORNIA



MARCH 1976

CLAIRE T. DEDRICK  
*Secretary for Resources*  
The Resources Agency

EDMUND G. BROWN JR.  
*Governor*  
State of California

RONALD B. ROBIE  
*Director*  
Department of Water Resources



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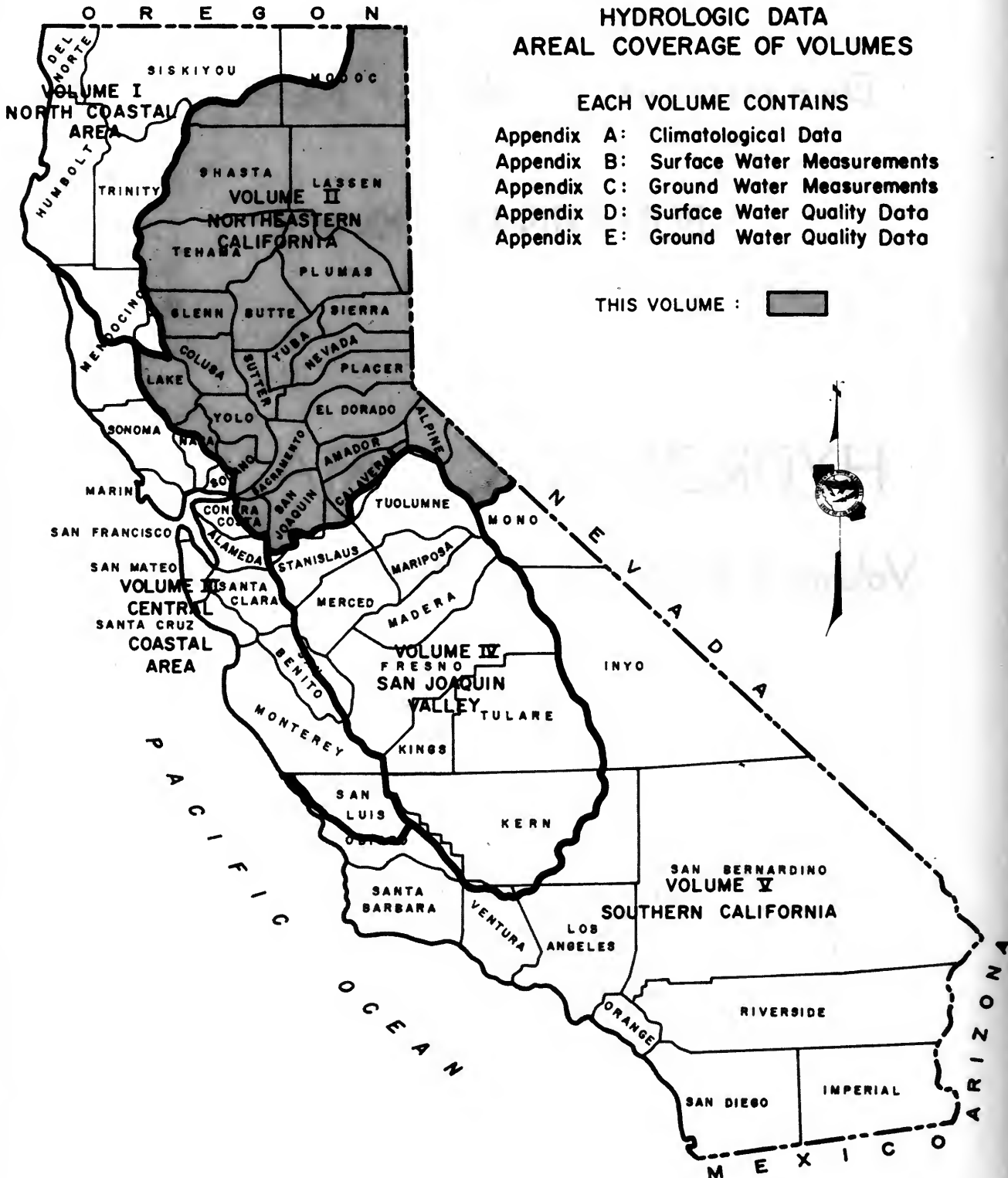
RONALD B. ROBIE  
*Director*  
Department of Water Resources

# HYDROLOGIC DATA AREAL COVERAGE OF VOLUMES

## EACH VOLUME CONTAINS

- Appendix A: Climatological Data
- Appendix B: Surface Water Measurements
- Appendix C: Ground Water Measurements
- Appendix D: Surface Water Quality Data
- Appendix E: Ground Water Quality Data

THIS VOLUME : 




## FOREWORD

The hydrologic data programs of the Department of Water Resources supplement the data collection activities of other agencies and help satisfy the needs for data on the quality and quantity of water in the State. Bulletin No. 130-74 presents accurate, comprehensive, and timely hydrologic data which provide a more complete knowledge of the factors affecting our environment and are prerequisites for effective management of the State's water resources.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map on the opposite page.

Volume II contains data on climate, surface water flow, ground water levels, and surface and ground water quality in Northeastern California for the 1973-74 water year. Figures show the location of climatological observation stations and ground water basins, the fluctuation of average ground water level in wells, the location of surface water measurement and surface water quality stations, and hydrographic unit boundaries.



Ronald B. Robie, Director  
Department of Water Resources  
The Resources Agency  
State of California

## CONVERSION FACTORS

### English to Metric System of Measurement

<u>Quantity</u>	<u>English unit</u>	<u>Multiply by</u>	<u>To get metric equivalent</u>
Length	inches (in)	25.4	millimetres (mm)
		.0254	metres (m)
	feet (ft)	.3048	metres (m)
	miles (mi)	1.6093	kilometres (km)
Area	square inches (in <sup>2</sup> )	$6.4516 \times 10^{-4}$	square metres (m <sup>2</sup> )
	square feet (ft <sup>2</sup> )	.092903	square metres (m <sup>2</sup> )
	acres	4046.9	square metres (m <sup>2</sup> )
		.40469	hectares (ha)
		.40469	square hectometres (hm <sup>2</sup> )
		.0040469	square kilometres (km <sup>2</sup> )
	square miles (mi <sup>2</sup> )	2.590	square kilometres (km <sup>2</sup> )
Volume	gallons (gal)	3.7854	litres (l)
		.0037854	cubic metres (m <sup>3</sup> )
	million gallons (10 <sup>6</sup> gal)	3785.4	cubic metres (m <sup>3</sup> )
	cubic feet (ft <sup>3</sup> )	.028317	cubic metres (m <sup>3</sup> )
	cubic yards (yd <sup>3</sup> )	.76455	cubic metres (m <sup>3</sup> )
	acre-feet (ac-ft)	1233.5	cubic metres (m <sup>3</sup> )
		.0012335	cubic hectometres (hm <sup>3</sup> )
Volume/Time (Flow)		$1.233 \times 10^{-6}$	cubic kilometres (km <sup>3</sup> )
	cubic feet per second (ft <sup>3</sup> /s)	28.317	litres per second (l/s)
		.028317	cubic metres per second (m <sup>3</sup> /s)
	gallons per minute (gal/min)	.06309	litres per second (l/s)
		$6.309 \times 10^{-5}$	cubic metres per second (m <sup>3</sup> /s)
	million gallons per day (mgd)	.043813	cubic metres per second (m <sup>3</sup> /s)
Mass	pounds (lb)	.45359	kilograms (kg)
	tons (short, 2,000 lb)	.90718	tonne (t)
		907.18	kilograms (kg)
Power	horsepower (hp)	0.7460	kilowatts (kW)
Pressure	pounds per square inch (psi)	6894.8	pascal (Pa)
Temperature	Degrees Fahrenheit (°F)	$\frac{tF - 32}{1.8} = tC$	Degrees Celsius (°C)

# TABLE OF CONTENTS

	<u>Page</u>		<u>Page</u>
AREAL COVERAGE OF VOLUMES . . . . .	ii	Appendix C: GROUND WATER MEASUREMENTS . . .	241
FOREWORD . . . . .	iii	Index to Ground Water Measurement Data . . .	242
CONVERSION FACTORS . . . . .	iv	Figure Number	
ORGANIZATION . . . . .	vi	C-1 Ground Water Basins in Northeastern California . . . . .	243
ACKNOWLEDGMENTS . . . . .	vii	C-2 Fluctuation of Average Ground Water Level in Selected Areas . . . . .	246
INTRODUCTION . . . . .	1	C-3 Fluctuation of Water Level in Wells . . .	249
APPENDIXES		Table Number	
Appendix A: CLIMATOLOGICAL DATA . . . . .	3	C-1 Average Change of Ground Water Levels and Summary of Well Measurements Reported . . . . .	244
Figure Number		APPENDIX D: SURFACE WATER QUALITY DATA . .	255
A-1 Climatological Observation Stations . . .	4	Figure Number	
Table Number		D-1 Surface Water Quality Sampling Stations . . . . .	256
A-1 Precipitation in Northeastern California During Water Year 1974 . . .	11	D-2 Surface Water Quality Sampling Stations, Sacramento- San Joaquin Delta Area . . . . .	266
A-2 Index of Storage Gage Precipitation Stations . . . . .	16	Table Number	
A-3 Storage Gage Precipitation Data . . . . .	18	D-1 Sampling Station Data and Index . . .	263
APPENDIX B: SURFACE WATER MEASUREMENTS . .	19	D-2 Mineral Analyses of Surface Water . . .	268
Alphabetical Index to Tables . . . . .	28	D-3 Minor Element Analysis of Surface Water . . . . .	322
Alphabetical Index to Surface Water Measurement Stations . . . . .	29	D-4 Supplemental Minor Element Analysis of Surface Water . . . . .	328
Hydrographic Area Code Number Index to Surface Water Measurement Stations . . .	31	D-5 Miscellaneous Constituents in Surface Water . . . . .	330
Figure Number		D-6 Nutrient Analysis of Surface Water . . .	353
B-1 Surface Water Measurement Stations . . .	20	D-7 Pesticides in Surface Water and Sediment . . . . .	381
B-2 Surface Water Measurement Stations, Sacramento-San Joaquin Delta Area . . .	26	D-8 Daily Maximum and Minimum and Monthly Average Water Temperature . . . . .	386
Table Number		D-9 Daily Maximum, Minimum, and Average Specific Conductance . . . . .	391
B-1 Annual Unimpaired Runoff . . . . .	35	D-10 Phytoplankton Analysis of Surface Water . . . . .	401
B-2 Monthly Unimpaired Runoff . . . . .	36	Appendix E: GROUND WATER QUALITY DATA . . .	403
B-3 Summary of Monthly Water Supply and Utilization, Sacramento- San Joaquin Delta . . . . .	37	Index to Ground Water Quality Data . . . . .	404
B-4 Streamflow Measurements at Miscellaneous Sites . . . . .	39	Figure Number	
B-5 Daily Mean Discharge . . . . .	41	E-1 Ground Water Basins in Northeastern California . . . . .	405
B-6 Diversions . . . . .	128	Table Number	
B-7 Deliveries from Folsom and Nimbus Reservoirs . . . . .	136	E-1 Mineral Analyses of Ground Water . . .	406
B-8 Importations into Northeastern California . . . . .	136	E-2 Minor Element Analysis of Ground Water . . . . .	441
B-9 Exportations from Northeastern California . . . . .	136	E-3 Supplemental Minor Element Analysis of Ground Water . . . . .	445
B-10 Maximum and Minimum Gage Heights . . .	137	Appendix F: WASTE WATER DATA . . . . .	447
B-11 Daily Mean Gage Height . . . . .	142		
B-12 Daily Tides . . . . .	163		
B-13 Contents of Reservoirs . . . . .	226		
B-14 Daily Inflow . . . . .	231		
B-15 Gaging Station Additions and Discontinuations . . . . .	235		
B-16 Corrections and Revisions to Previously Published Reports of Surface Water Data . . . . .	236		

STATE OF CALIFORNIA  
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Claire T. Dedrick, Secretary for Resources

DEPARTMENT OF WATER RESOURCES  
Ronald B. Robie, Director  
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Arcade Water District  
Butte County  
California Water Service Company  
City of Sacramento  
City of Stockton

Colusa County  
East Bay Municipal Utility District  
Glenn County  
Lake County  
National Weather Service

Pacific Gas and Electric Company  
Placer County  
Sacramento County  
Sacramento Municipal Utility District  
San Joaquin County

Solano County  
South San Joaquin Irrigation District  
South Sutter Water District  
Stockton-East Water District  
Sutter County

Tehama County  
U. S. Army, Corps of Engineers  
U. S. Bureau of Reclamation  
U. S. Forest Service  
U. S. Geological Survey

Yolo County  
Yuba County



## INTRODUCTION

This bulletin contains data regarding climate, surface water, ground water levels, and surface and ground water quality. The data were collected by the Department of Water Resources and by various organizations cooperating with the Department.

The Department's files contain some data that currently are not being published. Inquiries regarding local data should be directed to the District Offices listed as follows:

Central District  
P. O. Box 9137  
3251 S Street  
Sacramento, CA 95816

San Joaquin District  
P. O. Box 5710  
3374 East Shields Avenue  
Fresno, CA 93755

Northern District  
P. O. Box 607  
2440 Main Street  
Red Bluff, CA 96080

Southern District  
P. O. Box 6598  
849 South Broadway  
Los Angeles, CA 90055

Inquiries regarding statewide data should be directed to the Division Office:

Division of Planning  
P. O. Box 388  
1416 Ninth Street  
Sacramento, CA 95802

Federal and local agencies also are maintaining substantial data files. A partial listing follows:

### Federal Agencies

U. S. Army, Corps of Engineers  
Sacramento District  
650 Capitol Mall  
Sacramento, CA 95814

U. S. Department of the Interior  
Geological Survey  
Water Resources Division  
2800 Cottage Way  
Sacramento, CA 95825

U. S. Department of the Interior  
Geological Survey  
Water Resources Division  
855 Oak Grove Avenue  
Menlo Park, CA 94025

U. S. Department of the Interior  
Bureau of Reclamation  
Mid-Pacific Regional Office  
2800 Cottage Way  
Sacramento, CA 95825

U. S. Department of the Interior  
Geological Survey  
Water Resources Division  
705 North Plaza Street  
Carson City, NV 89701

Local Agencies

East Bay Municipal Utility  
District  
Mokelumne Area Representative  
P. O. Box 61  
Lodi, CA 95240

Pacific Gas & Electric Company  
5555 Florin-Perkins Road  
Sacramento, CA 95826

County of Sacramento  
Department of Public Works  
Water Resources Division  
827-7th Street  
Sacramento, CA 95814

Sacramento Municipal Utility  
District  
P. O. Box 15830  
6201 S Street  
Sacramento, CA 95813

San Joaquin County Flood Control  
and Water Conservation District  
P. O. Box 1810  
Stockton, CA 95201

## Appendix A

### CLIMATOLOGICAL DATA

This appendix contains precipitation data for certain climate stations and storage gages for the 1974 water year, October 1, 1973, through September 30, 1974. Additional precipitation data, as well as data concerning air temperature, wind, and evaporation, are available in the National Weather Service's publications "Climatological Data - California"; "Hourly Precipitation Data - California"; and, for particular key stations, "Local Climate Data". These publications can be obtained from:

Superintendent of Documents  
Government Printing Office  
Washington, D. C. 20402

Other agencies within the area covered by this report have established their own supplemental rain gage networks. Some of these agencies are: California Department of Parks and Recreation; East Bay Municipal Utility District; Pacific Gas and Electric Company; Sacramento County Division of Water Resources; Sacramento Municipal Utility District; Tehama County Flood Control and Water Conservation District.

Each station in this appendix has been assigned an identification number. The letter and first digit denote the hydrographic unit as shown below. The remaining digits denote the alphabetical sequence of the station. A complete list of stations is contained in Bulletin No. 165, Index of Climatological Stations in California, 1971.

#### Sacramento River Basin

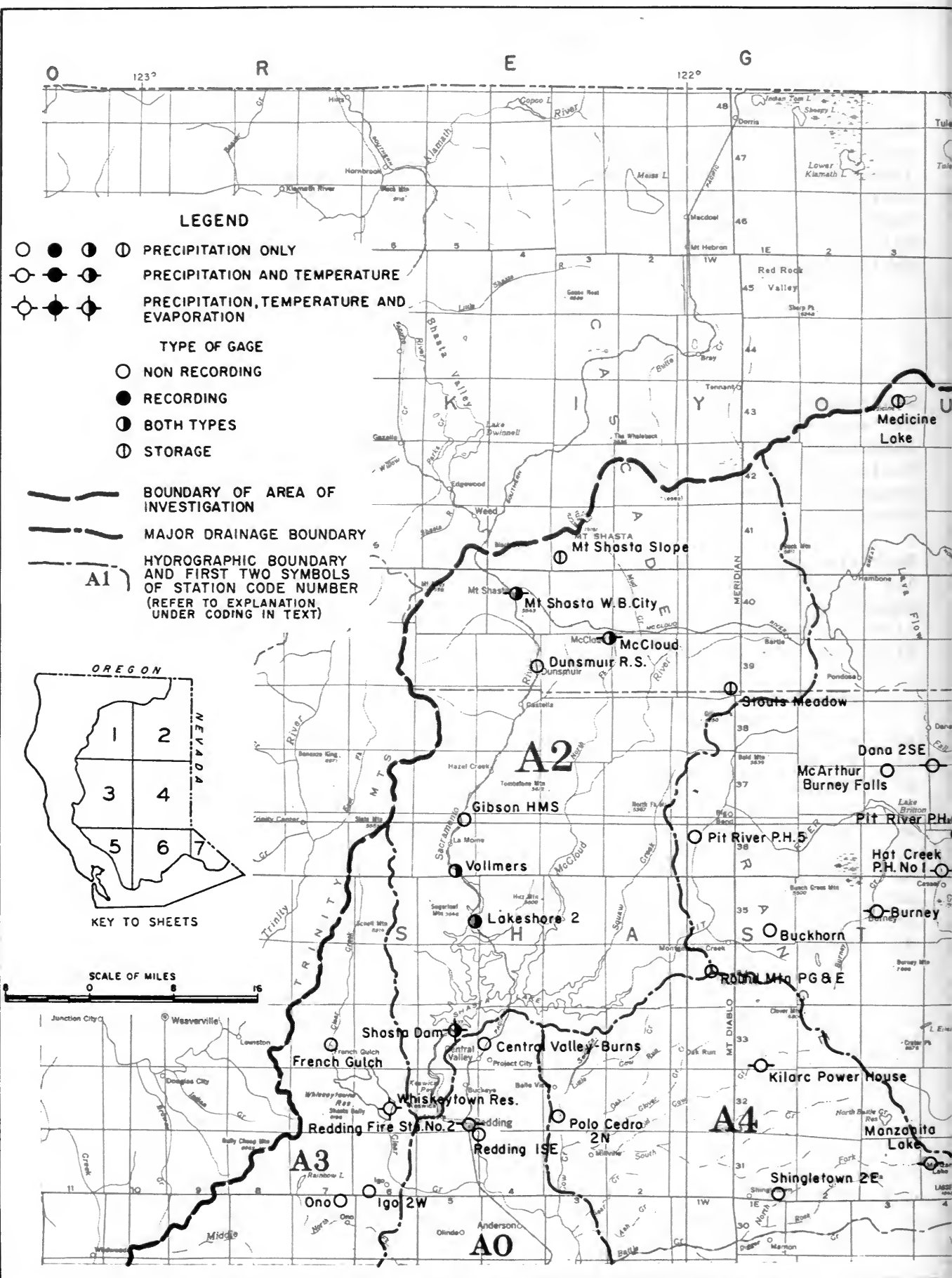
A0	Sacramento Valley Floor
A1	Pit River
A2	Shasta Lake
A3	Sacramento Valley Westside
A4	Sacramento Valley Northeast
A5	Feather River
A6	Yuba-Bear Rivers
A7	American River
A8	Cache Creek
A9	Putah Creek

#### San Joaquin River Basin

B0	San Joaquin Valley Floor
B1	Cosumnes River
B2	Mokelumne-Calaveras Rivers
B8	San Joaquin Valley Westside
B9	Sacramento-San Joaquin Delta

#### North Lahontan Area

G1	Surprise Valley
G2	Madeline Plains
G3	Eagle Lake
G4	Susan River
G5	Smoke River
G6	Herlong
G7	Truckee River
G8	Carson River
G9	Walker River



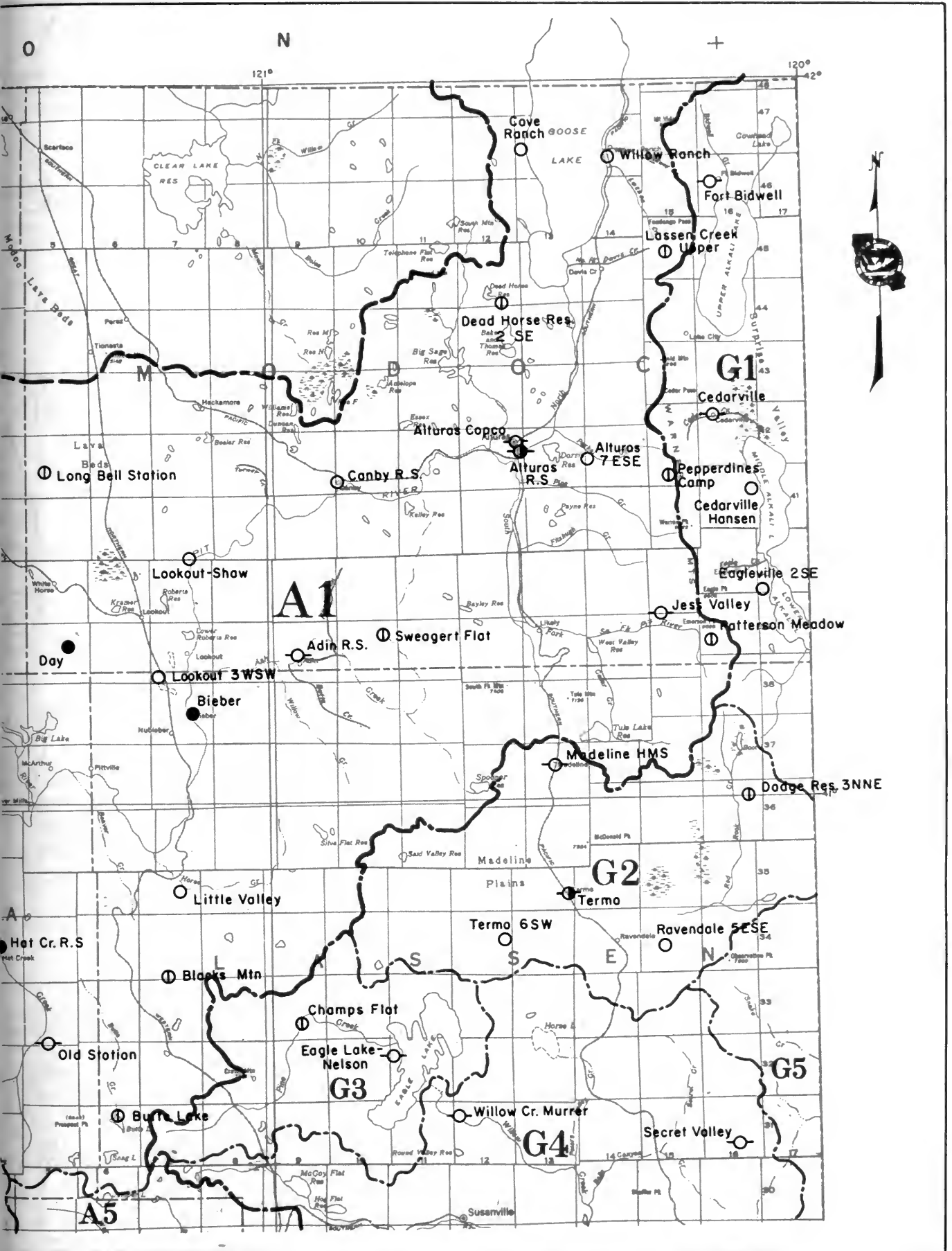
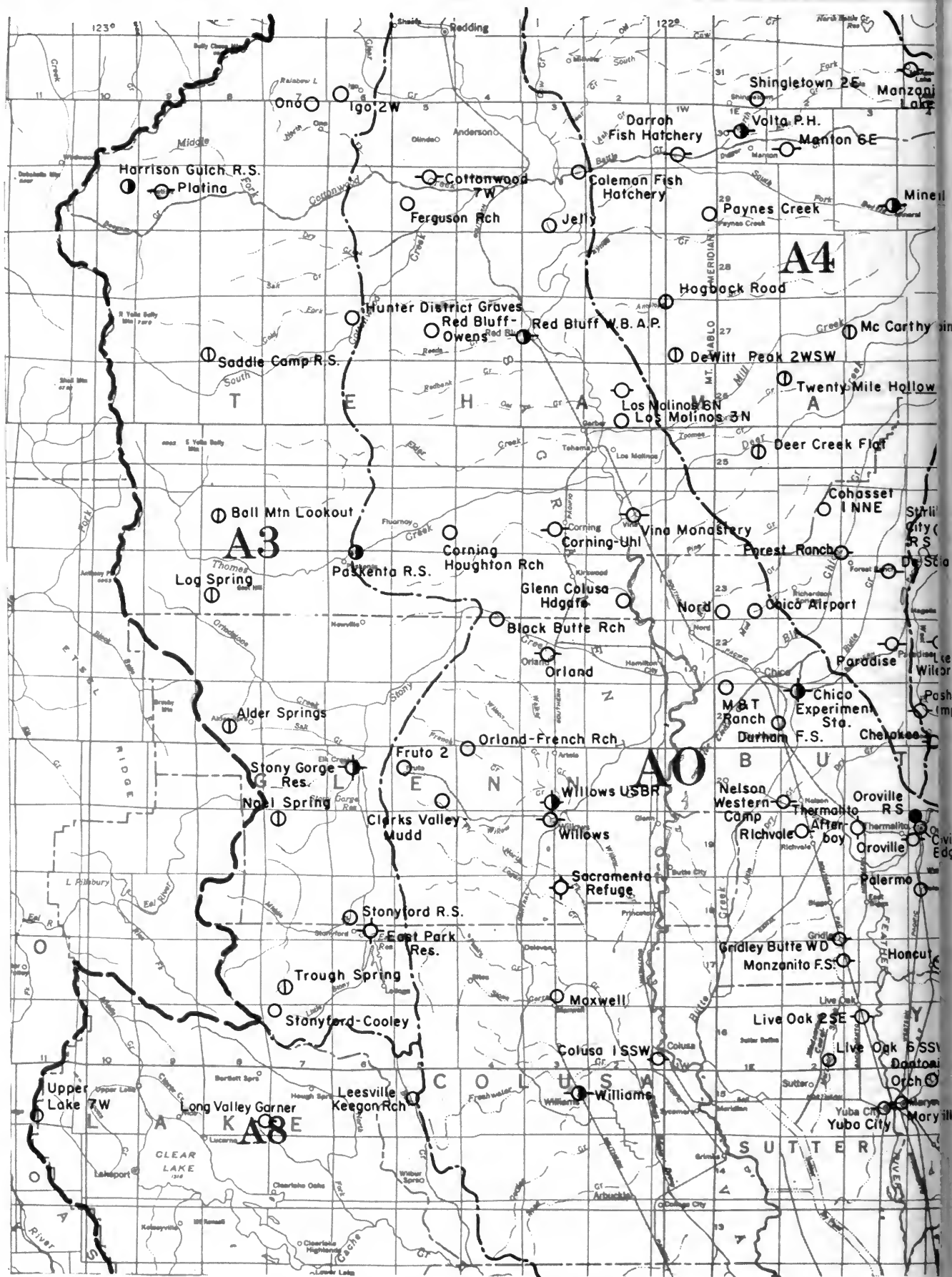


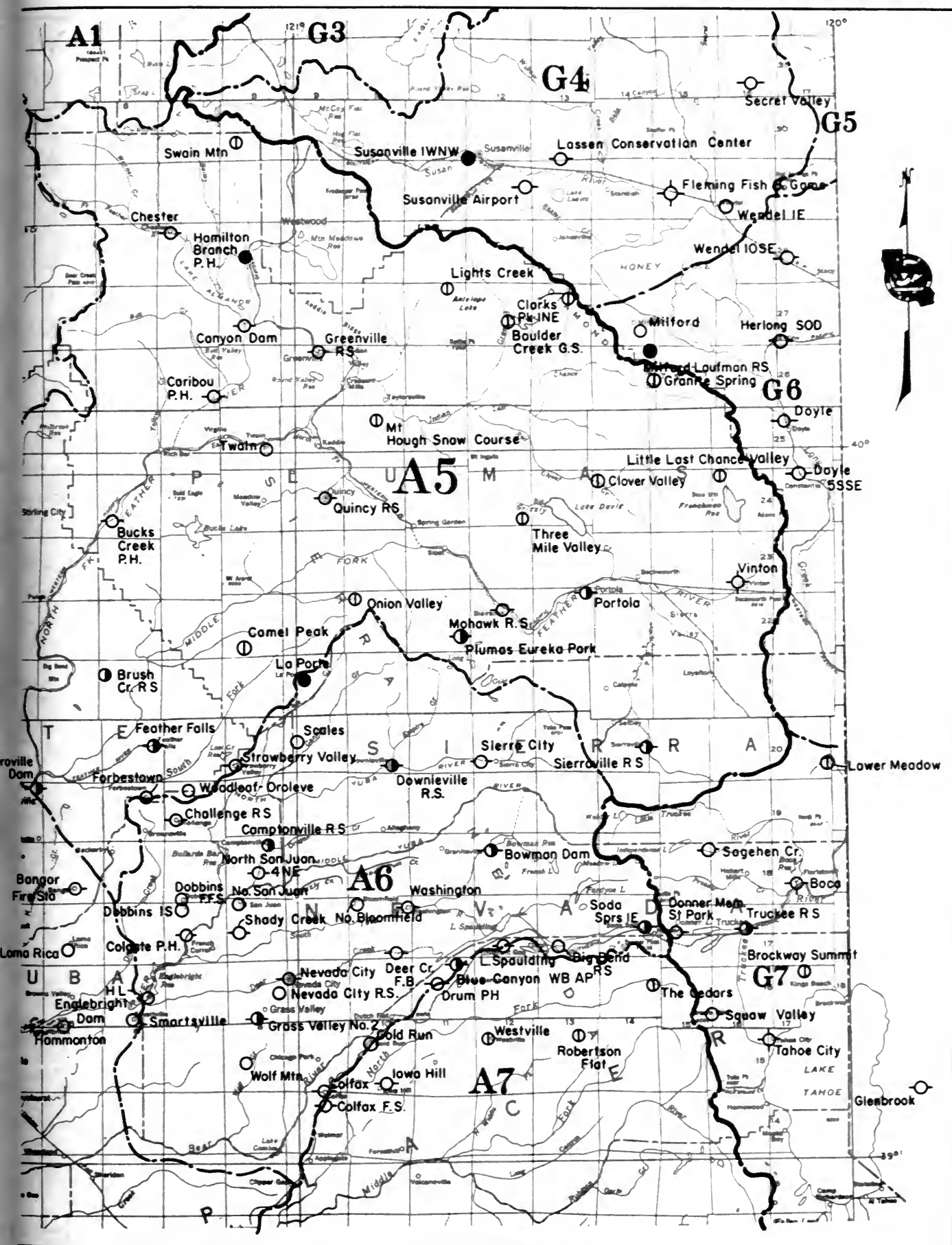
FIGURE A-1 SHEET 3 OF 7

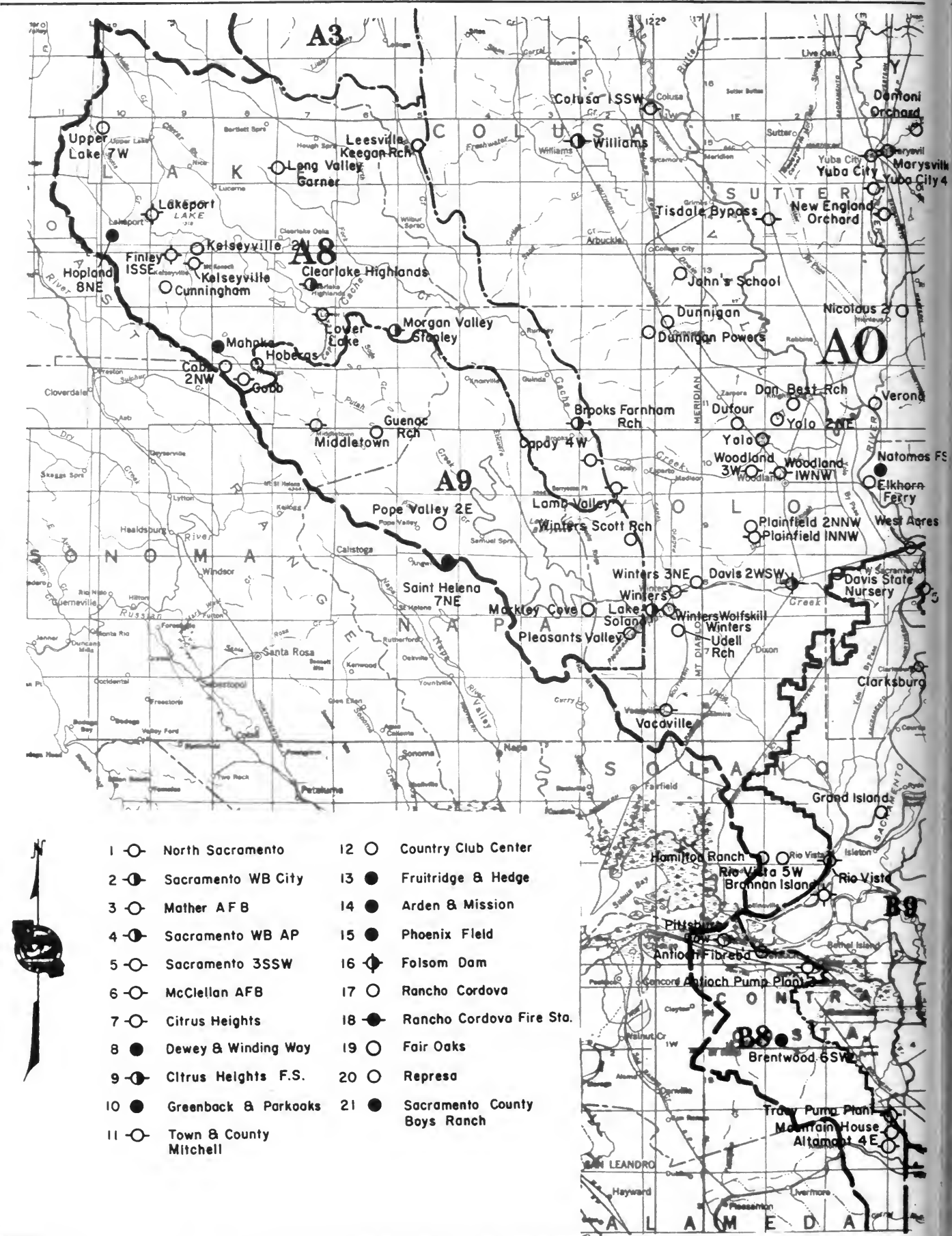


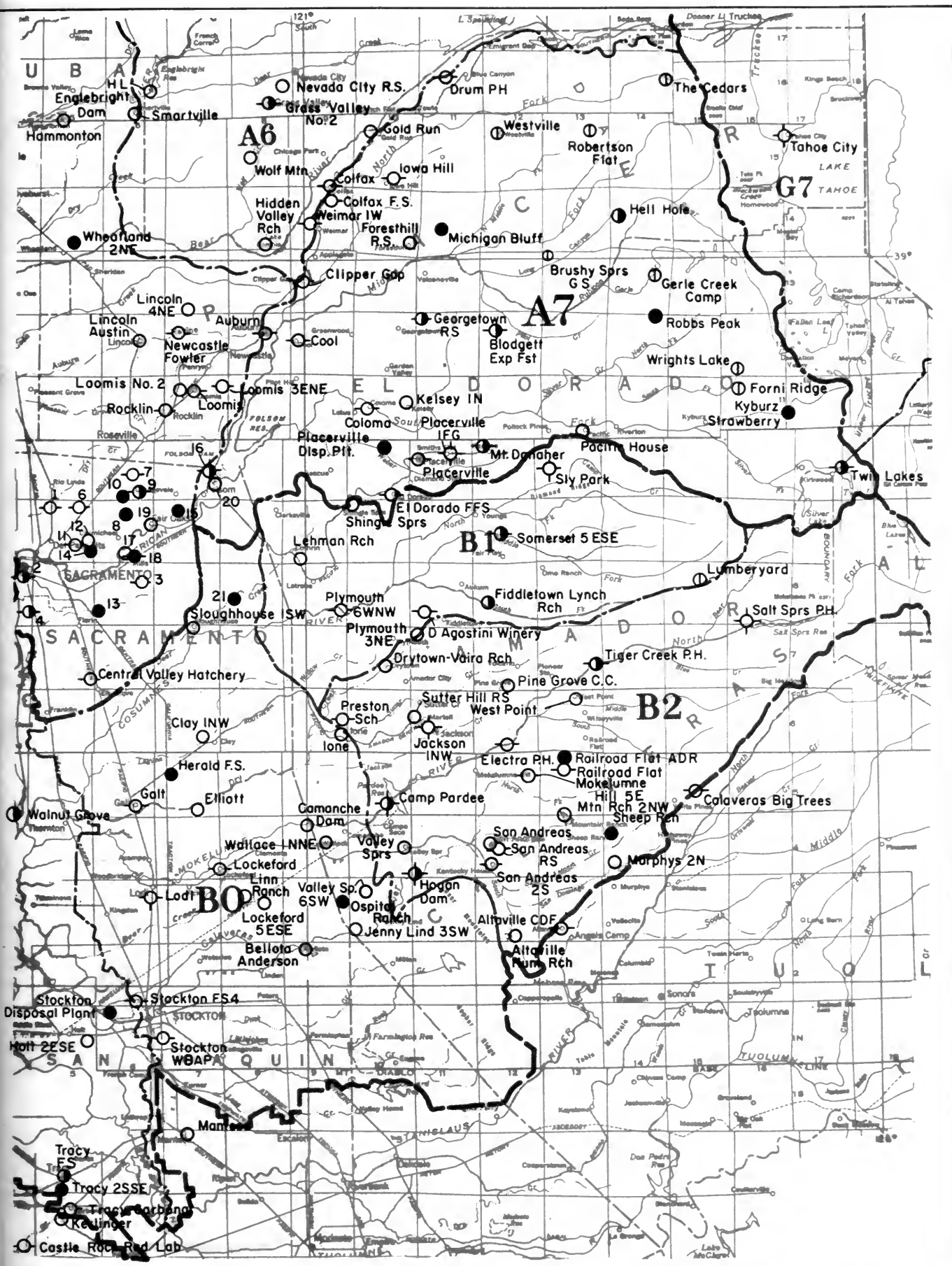
CLIMATOLOGICAL OBSERVATION STATIONS

1973-74









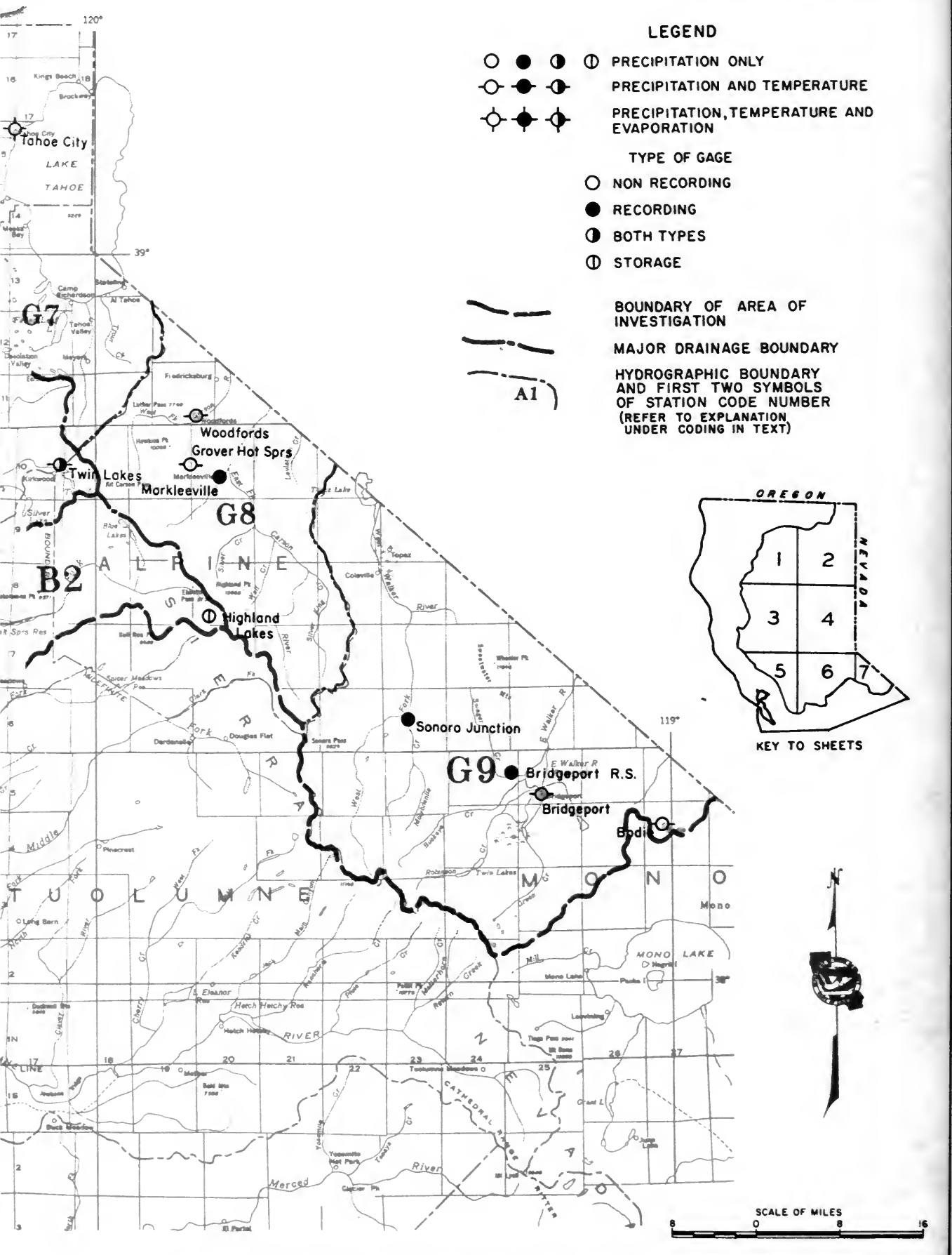


TABLE A-1  
PRECIPITATION IN NORTHEASTERN CALIFORNIA  
DURING WATER YEAR 1974

This table summarizes monthly precipitation totals for selected stations for the 1974 water year, October 1, 1973, through September 30, 1974. The table shows each station's assigned number in accordance with the explanation given in the introduction to this appendix. Location is shown by latitude and longitude in degrees to the third decimal.

Precipitation values are shown to the nearest hundredth (.01) of an inch. Where digital recording rain gages that record to only the nearest tenth (.1) of an inch are used, a zero is shown in the second decimal place. The following notations are used to qualify the values:

.00-	No record or incomplete record
B	Record began
E	Wholly or partially estimated
N	Record ends
.00T	Trace, an amount too small to measure

The county code for each station is shown below:

Alameda	01	Marin	21	San Mateo	41
Alpine	02	Mariposa	22	Santa Barbara	42
Amador	03	Mendocino	23	Santa Clara	43
Butte	04	Merced	24	Santa Cruz	44
Calaveras	05	Modoc	25	Shasta	45
Colusa	06	Mono	26	Sierra	46
Contra Costa	07	Monterey	27	Siskiyou	47
Del Norte	08	Napa	28	Solano	48
El Dorado	09	Nevada	29	Sonoma	49
Fresno	10	Orange	30	Stanislaus	50
Glenn	11	Placer	31	Sutter	51
Humboldt	12	Plumas	32	Tehama	52
Imperial	13	Riverside	33	Trinity	53
Inyo	14	Sacramento	34	Tulare	54
Kern	15	San Benito	35	Tuolumne	55
Kings	16	San Bernardino	36	Ventura	56
Lake	17	San Diego	37	Yolo	57
Lassen	18	San Francisco	38	Yuba	58
Los Angeles	19	San Joaquin	39		
Madera	20	San Luis Obispo	40	Oregon	61
				Nevada (State)	62
				Arizona	63
				Mexico	64



TABLE A-1 (Cont.)

## PRECIPITATION IN NORTHEASTERN CALIFORNIA DURING WATER YEAR 1974

CO	STA NO	LAT	LONG	ELEV	STATION NAME	TOTAL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
25	A10002900	41.200	120.950	4193	ADIN RS	18.36		1.11	2.84	2.63	3.14	1.37	4.30	1.75	.37	.05	.59	.21
60	880014603	37.743	121.587	300	ALTAMONT 4E	13.10	1.64	3.79	3.17	1.18	.09	1.70	1.40	.00	.05	.08	.00	
5	B20014900	38.083	120.560	1545	ALTAVILLE COF	36.35	2.85	6.39	6.82	4.17	1.35	7.75	4.26	.03	.69	2.04	.00	
5	B20015905	00.000	000.000	1400	ALTAVILLE HUNT RCH	38.42	3.05	4.38	6.72	5.22	7.93	5.11	3.04	.11	.59	2.27	.00	
25	A10015600	41.500	120.531	4406	ALTURAS COPCO	8.72	.62	2.32	1.11	1.10	.79	1.68	.59	.18	.00T	.33	.00T	
25	A10015900	41.500	120.400	4906	ALTURAS 7 ESE	11.95	.93	2.19	1.65	1.44	.75	2.31	1.29	.27	.04	.80	.28	
7	A10018900	41.483	120.533	4385	ALTURAS RS	9.31	.62	1.91	1.23	1.72	.86	1.71	.50	.03	.00T	.73	.00T	
7	B80022700	38.013	121.770	28	ANTIOCH FIBREBD MILL	14.58	1.63	3.32	3.28	1.25	.52	2.53	1.72	.00	.06	.27	.00	
7	B80023200	37.983	121.727	60	ANTIOCH PUMP PLANT 3	13.97	1.89	3.33	3.28	1.14	.45	2.11	1.61	.00	.07	.09	.00	
31	A70038300	38.899	121.068	1292	AUBURN	52.28	2.98	12.34	8.87	7.00	3.37	11.00	3.19	.00	.56	2.97	.00T	
04	A00048100	39.390	121.407	750	BANGOR FIRE STATION	45.44	3.42	12.36	5.75	6.41	2.26	9.86	2.54	.07	.30	2.47	.00	
45	A00054600	40.400	122.133	422	BATTLE CREEK ADR	31.50	2.40	8.20	3.90	4.50	2.10	6.30	1.50	.20	.20	2.20	.00	
18	A10073100	41.121	121.140	4130	BIEBER	26.64	1.74	6.54	3.14	4.86	2.10	5.03	.93	.42	.26	1.22	.40	
11	A00084100	39.788	122.303	375	BLACK BUTTE RANCH	23.20	1.86	7.66	3.29	3.11	.88	3.14	1.91	.01	.08	1.26	.00	
09	A70088300	38.909	120.666	4414	BLODGETT EXP FOREST	87.48	4.80	21.26	14.12	11.83	5.55	15.82	7.32	.00T	.34	6.44	.00T	
31	A70089700	39.278	120.707	5800	BLUE CANYON WB AP	99.14	4.83	28.36	13.00	13.62	7.10	18.66	7.06	.12	.39	5.66	.14	
29	070093100	39.308	120.092	5575	BOCA	23.69	1.50	5.17	4.42	3.51	.80	5.21	.98	.00T	.00	1.83	.47	
26	090094300	38.212	119.012	6370	BODIE	13.00	.29	2.75	1.37	2.41	.08	1.32	.59	.46	.00T	2.18	1.55	
29	A60101800	39.444	120.656	5347	BOWMAN DAM	98.57	6.09	27.41	13.62	14.00	5.87	19.43	6.22	.34	.26	5.33	.00	
34	890104300	38.108	121.696	35	BRANNAN ISLAND	19.72	1.72	4.90	3.92	1.95	.78	3.28	2.39	.00	.22	.56	.00	
7	880106000	37.083	121.774	325	BRENTWOOD 6SW	17.63	1.73	6.45	2.68	1.45	.85	2.99	1.34	.00	.00	.14	.00	
26	090107200	38.255	119.227	6476	BRIDGEPORT	9.47	.52	2.26	1.36	.97	.04	1.49	.27	.14	.23	1.36	.83	
26	090107600	38.276	119.288	6560	BRIDGEPORT R S	13.25	.59	2.96	1.80	2.30	.48	1.96	.52	.10	1.0	1.47	.97	
57	A80111200	38.764	122.155	294	BROOKS FARMHAM RANCH	23.09	1.35	6.19	5.06	3.56	1.60	3.54	1.16	.00	.00	.63	.00T	
04	A50113000	39.691	121.338	3561	BRUSH CREEK R S	107.78	5.33	32.71	13.65	14.46	6.30	26.20	4.87	.14	.62	3.50	.00	
45	A10114900	40.866	121.850	3770	BUCKHORN	105.14	6.31	29.34	17.25	21.06	6.85	16.52	4.93	.40	.00T	2.17	.51	
32	A50115900	39.911	121.326	1760	BUCKS CREEK PH	102.58	5.61	28.30	15.44	15.81	6.90	22.25	5.06	.82	.35	1.96	.00	
45	A10121400	40.883	121.666	3127	BURNEY	41.41	1.73	7.66	6.51	10.78	1.75	9.46	1.67	.34	.22	.73	.56	
5	B20127700	38.277	120.308	4696	CALAVERAS BIG TREES	.00	4.62	.00	12.70	8.81	2.95	17.64	5.99	.12	.11	3.51	.00T	
5	B20142800	39.250	120.843	658	CAMP PARDEE	30.45	3.88	5.08	6.28	3.47	1.41	4.59	3.30	.00	.61	1.63	.00	
50	A60146200	39.451	121.048	2755	CAMPTONVILLE R S	.00	5.20	24.40	11.20	.00	.00	.00	4.80	.10	.40	4.30	.00	
25	A10147600	41.450	120.866	4312	CANBY RS	16.33	1.36	3.39	2.01	2.86	1.04	3.92	.73	.19	.00T	.67	.16	
32	A50149100	40.171	121.086	4555	CANYON DAM	58.96	3.06	15.76	7.22	9.03	4.84	13.57	2.37	.64	.27	1.13	1.27	
57	A60150600	38.705	122.116	300	CAPAY 4W	23.62	1.21	6.03	4.00	4.10	.94	5.59	1.21	.04	.01	.49	.00	
39	B80156300	37.633	121.533	625	CASTLE ROCK RAD LAB	12.90	1.70	1.79	3.75	1.55	.44	1.80	1.29	.00	.47	.11	.00	
25	010161400	41.528	120.173	4670	CEDARVILLE	12.72	1.04	2.29	1.52	2.39	.72	1.95	1.04	.04	.04	1.30	.39	
25	010161405	41.439	120.097	4450	CEDARVILLE HANSEN	.00	.66	1.42	1.06	1.20	.37	1.34	.00	.00	.00	.36	.50	
45	A00163401	40.676	122.365	785	CENTRAL VALLEY BURNS	75.70	3.54	21.41	10.10	13.95	4.57	12.74	6.07	.12	.57	2.42	.21	
34	A00163501	38.416	121.366	38	CENTRAL VALLEY HATCHER	22.06	2.12	4.77	3.95	3.33	.97	3.78	1.87	.00	.35	.92	.00	
58	A60165300	39.483	121.222	2560	CHALLENGE R S	98.99	6.75	27.48	12.30	14.31	6.16	21.84	6.00	.00	.31	3.84	.00T	
04	A50169300	39.635	121.528	1395	CHEROKEE	64.00	4.65	17.88	8.58	8.53	4.17	13.86	4.10	.15	.28	1.80	.00T	
32	A50170000	40.305	121.227	4525	CHICSTER	35.78	3.21	8.21	5.80	3.96	4.15	7.47	1.57	.04	.22	1.04	.11	
04	A00171500	39.700	121.783	205	CHICO EXPERIMENT STA	.00	.00	.00	5.30	5.70	.00	.00	1.62	.27	.27	1.02	.00	
04	A00171601	39.798	121.853	220	CHICO AIRPORT	.00	3.07	12.11	.00	4.05	3.33	.00	1.06	.09	.17	1.18	.00	
34	A00177300	38.707	121.296	138	CITRUS HEIGHTS	30.36	2.16	9.18	4.79	3.96	1.49	4.31	2.39	.00	.41	1.61	.04	
34	A00177334	38.679	121.283	160	CITRUS HEIGHTS F.S.	.00	2.51	7.68	5.54	3.81	.00	.00	.00	.00	.00	.00	.00	
57	B90178800	39.518	121.533	14	CLARKSBURG	21.65	1.73	5.49	4.05	3.36	.71	3.16	2.13	.02	.23	.77	.00	
11	A00178900	38.448	122.398	410	CLARKS VALLY MUDD	19.95	2.14	5.27	3.44	3.17	.60	3.70	.82	.08	.02	.79	.00T	
17	A60180600	38.966	122.650	1320	CLEARLAKE MGHLOS	32.83	2.75	8.32	5.67	5.73	1.82	6.34	1.36	.00T	.00	.70	.14	
31	A60182700	38.969	121.019	1675	CLIPPER GAP	.00	2.98	15.12	10.49	7.52	3.21	10.86	2.79	.00	.61	.00	.00	
17	A80188000	38.824	122.721	2520	COBB	110.80	8.52	33.64	12.16	17.75	6.19	28.69	2.77	.00	.00	1.04	.00	
04	A40189100	39.944	121.719	3180	COMASSET 1 NNE	95.63	7.46	28.43	11.19	11.79	5.39	23.28	4.99	.35	.34	2.39	.00T	
45	A00190700	40.400	122.133	420	COLEMAN FISH HATCHERY	35.00	2.53	7.55	5.42	4.55	2.35	6.83	2.36	.10	.00	3.31	.00	
31	A70191200	39.098	120.952	2418	COLFAX	69.32	3.50	18.28	11.87	8.54	4.45	14.97	3.60	.00T	.54	3.55	.02	
31	A70191201	39.090	120.946	2350	COLFAX FIRE STATION	68.88	5.88	18.97	11.08	6.16	4.22	14.16	3.44	.00	.56	4.39	.02	
58	A60191600	39.330	121.188	585	COLGATE POWER HOUSE	59.61	4.16	16.22	10.43	7.08	3.20	11.63	3.18	.01	.31	3.26	.05	
08	A70192200	38.801	120.891	776	COLOMA	44.12	2.63	10.73	7.50	5.25	2.14	9.30	2.64	.00	.95	2.98	.00	
09	A00194800	39.200	122.016	60	COLUSA 1 SSW	19.31	1.88	5.54	2.11	2.71	1.11	4.03	.95	.02	.00T	.96	.00T	
09	A70198500	38.883	121.016	1525	COOL	48.54	1.99	12.61	9.23	6.28	2.83	9.38	2.99	.00	.57	2.68	.00	
52	A00202363	39.900	122.194	270	CORNING UHL	24.02	2.08	7.84	3.31	4.06	1.35	3.37	1.02	.01	.07	.90	.01	
52	A00202700	39.900	122.366	487	CORNING HOUGHTON RCH	20.62	1.42	4.63	4.16	2.62	.91	4.27	1.94	.00	.12	.55	.00	
45	A00207000	40.376	122.408	475	COTTONWOOD 7W	33.16	1.78	7.51	6.77	3.77	2.02	8.11	2.08	.04	.35	.59	.14	
34	A00207334	38.607	121.388	56	COUNTRY CLUB CENTRE	25.05	1.91	7.09	3.84	3.60	1.24	3.77	1.72	.00	.59	1.29	.00	
25	A10208500	41.921	120.519	4900	COVE RANCH	18.67	2.52	4.91	1.93	2.15	1.58	3.06	1.36	.25	.14	.62	.15	
17	A80222400	38.950	122.890	1421	CUNNINGHAM	.00	2.57	13.36	7.50	8.39	3.91	11.63	.00	.00	.00	.00	.00	
3	B10225200	38.530	120.773	1820	D AGOSTINI WINERY	42.61	2.94	7.94	8.85	6.21	2.43	7.21	3.41	.00	.73	2.89	.00	
45	A10225900	41.094	121.516	3320	DANA 2 SE	43.79	2.14	11.47	8.06	5.97	2.29	10.41	1.61	.40	.06	.95	.43	
57	A00227400	38.779	121.759	45	DAN BEST RANCH	.00	1.11	4.62	3.93	3.21	.82	3.52	.71	.00	.50	.00	.00	
58	A00227600	39.165	121.512	85	DANTONI ORCHARD	28.66	2.07	7.55	5.04	3.38	1.49	5.26	1.66	.00	.41	1.80	.00	
45	A40228300	40.431	121.994	975	DARRAH FISH HATCHERY	34.72	3.64	7.44	5.95	4.94	2.12	7.04	1.82	.05	.27	1.42	.03	
57	A00229400	38.534	121.774	60	DAVIS 24SW	21.34	1.51	5.46	4.06	3.30	.53	4.75	.17	.00	.28	.63	.00T	
57	A00229402	38.554	121.679	29	DAVIS STATE NURSERY	.00	1.55	5.91	3.77	3.47	.68	4.23	1.17	.00	.41	.60		

TABLE A-1 (Cont.)

## PRECIPITATION IN NORTHEASTERN CALIFORNIA DURING WATER YEAR 1974

CO	STA NO	LAT	LONG	ELEV	STATION NAME	TOTAL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
25	010259906	41.288	120.086	4450	EAGLEVILLE 2SE	7.42	.56	1.09	1.53	1.81	.07	1.60	.56	.00T	.00	.20	.00T	.00
06	A30264000	39.366	122.516	1205	EAST PARK RESERVOIR	21.56	1.50	5.90	3.71	4.42	.76	4.12	.52	.07	.00	.53	.00	.00
09	A70272000	38.679	120.868	1556	EL DORADO FFS	48.12	3.30	9.50	9.44	6.25	2.63	7.53	5.63	.00	.70	3.14	.00	.00
3	B20272000	38.319	120.669	715	ELECTRA PH	38.92	3.67	6.90	8.14	4.35	2.09	6.79	3.50	.00	.43	3.05	.00	.00
57	A00274400	40.676	121.629	40	ELKHORN FERRY	.00-	1.57	6.31	.00-	.00N	.00-	.00-	.00-	.00-	.00-	.00-	.00-	.00-
39	B00276000	38.236	121.193	92	ELLIOTT	21.94	2.08	4.77	3.89	2.60	.62	3.93	2.21	.00T	.48	1.16	.00T	.00T
34	A00294800	38.642	121.270	180	FAIR OAKS	26.43	2.31	6.75	5.15	3.82	1.45	4.11	2.34	.00	.63	1.55	.02	.00
04	A50299400	39.593	121.258	2965	FEATHER FALLS	.00-	4.90	21.60	7.90	9.00	5.40	15.30	2.30	.20	.00-	.00-	.00	.00
52	A00302000	40.350	122.456	800	FERGUSON RANCH	.00-	2.40	.00-	7.80	5.70	3.80	12.50	2.10	.00	.90	1.00	.10	.00
3	B10303800	38.525	120.760	2140	FIDOLETOWN LYNCH RM	52.36	3.51	11.61	10.23	7.72	2.82	8.77	4.14	.00	.40	3.16	.00	.00
17	A80305800	38.982	122.874	1377	FINLEY 1 SSE	39.73	2.01	11.26	6.45	7.21	3.02	9.09	.09	.04	.00	.56	.00T	.00
18	B40308700	40.352	120.303	4000	FLEMING FISH + GAME	7.93	.71	1.44	1.17	1.04	.25	2.09	.47	.08	.00T	.62	.06	.00
34	A70311300	38.706	121.161	350	FOLSOM DAM	32.76	2.79	7.40	5.66	4.63	1.38	5.80	2.49	.00	.47	2.14	.00	.00
04	A50312700	39.528	121.281	2900	FORESTOWN	92.74	6.47	25.09	13.18	11.94	5.88	20.85	4.94	.17	.30	3.92	.00	.00
31	A70313400	39.020	120.824	3190	FORESTHILL R'S	74.77	3.56	19.08	12.80	9.88	4.10	15.30	5.33	.00T	.56	4.14	.02	.00
04	A40313525	39.884	121.663	2520	FOREST RANCH	92.93	6.76	27.52	12.92	11.69	4.30	23.47	5.98	.18	.11	.00	.00	.00
25	B10315700	41.850	120.133	4498	FORT BIONE	15.84	1.02	3.49	2.09	1.87	.97	2.76	.97	.12	.14	1.46	.05	.00
45	A30324200	40.700	122.633	1100	FRENCH GULCH	59.09	0.75	12.42	9.31	8.29	3.13	10.56	4.43	.31	.67	1.12	.10	.00
11	A00326702	39.588	122.451	610	FRUTO 2	21.83	1.52	5.61	3.64	3.71	.61	4.28	1.39	.02	.26	.68	.11	.00
34	B00330100	38.253	121.303	47	GALT	18.27	1.90	3.60	3.34	2.40	.69	3.66	1.63	.00	.32	.73	.00	.00
09	A70338400	38.924	120.788	3001	GEORGETOWN R S	98.07	3.71	18.50	14.30	26.83	6.22	15.50	6.31	.00	.51	4.19	.00	.00
45	A20340500	41.010	122.406	1435	GIBSON HMS	122.99	13.07	34.15	14.17	21.26	6.94	22.56	6.50	.00T	.73	2.32	.75	.00
11	A00346000	39.788	122.050	160	GLENN COLUSA HDGATE	24.26	2.80	6.75	3.37	3.93	1.03	4.16	1.11	.22	.23	.66	.00T	.00
31	A60349100	39.172	120.866	3320	GOLD RUN	82.93	4.41	22.19	13.16	10.37	5.38	16.43	5.55	.07	.52	4.76	.07	.00
34	B90354100	38.193	121.615	0	GRAND ISLAND	19.84	2.11	4.55	3.50	2.40	.71	3.69	2.13	.00	.25	.50	.00	.00
29	A60357300	39.208	121.067	2400	GRASS VALLEY NO2	78.43	4.77	21.29	12.49	9.74	4.75	15.73	5.25	.15	.36	3.82	.08	.00
32	A50362100	40.140	120.940	3560	GREENVILLE RS	71.06	3.60	17.63	15.45	8.77	4.59	15.45	3.20	.07	.12	1.75	.43	.00
04	A60364000	39.366	121.694	90	GRIDLEY BUTTE W O	20.67	2.11	7.95	4.32	3.75	1.68	6.39	2.04	.00	.15	1.28	.00T	.00
48	B30365000	38.150	121.966	1	GRIZZLY ISLAND REFUGE	20.48	1.42	5.19	4.25	2.69	.78	3.94	1.62	.03	.00	.56	.00	.00
02	B80367500	38.695	119.824	5800	GROVER HOT SPRINGS	37.38	2.52	9.60	6.62	5.19	.81	7.26	2.03	.28	.00	2.60	.47	.00
17	A90368400	38.741	120.513	1200	GUENOC RANCH	71.58	4.87	20.58	8.03	12.70	6.02	12.47	4.29	.15	.00	2.45	.02	.00
32	A50372500	40.268	121.086	4560	HAMILTON BRANCH PH	.00-	2.62	.00-	.00-	5.67	4.49	.00-	10.81	.68	.35	7.70	.08	.00
48	A00372948	38.158	121.806	150	HAMILTON RANCH	19.79	1.26	5.37	3.37	2.50	1.06	3.53	1.98	.00	.15	.57	.00	.00
58	A00374000	39.193	121.427	131	HAMMONTON	31.56	2.47	9.45	4.56	3.80	2.32	5.02	1.59	.00T	.40	1.95	.00T	.00
45	A30379100	40.366	122.966	2710	HARRISON GULCH R S	53.63	2.70	12.40	9.33	12.36	5.51	8.50	2.01	.00	.66	.00	.16	.00
29	A60380000	39.239	121.266	580	H L ENGLEBRIGHT DAM	.00-	3.38	12.69	7.78	7.01	2.41	10.38	2.28	.09	.25	.69	.00	.00-
45	A10382100	40.800	121.500	3348	HAT CREEK RS	.00-	2.29	.00-	.00-	.00-	.00-	.00-	.00-	.41	.26	1.25	.40	.00
45	A10382400	40.933	121.550	3015	HAT CREEK PH NO 1	27.44	1.35	3.84	4.80	7.06	1.24	6.24	.96	.24	.18	.97	.56	.00
31	A70389100	39.058	120.414	4850	HELL HOLE	.00-	3.10	16.00	9.30	8.00	3.20	.00-	.00-	.10	.10	5.60	.00	.00
34	B00391900	38.296	121.242	70	HERALD FIRE STATION	.00-	1.94	4.65	2.83	1.16	.58	3.09	1.70	.00-	.00-	.00-	.00-	.00-
18	B60392200	40.150	120.100	4083	HERLONG S O D	.00-	.54	1.26	.74	.70	.00-	.00-	.00-	.00-	.00-	.00-	.00-	.00-
29	A60394600	39.026	121.093	1480	HIDDEN VALLEY RANCH	50.24	3.34	12.76	8.54	6.69	3.23	9.78	2.93	.02	.25	2.70	.00	.00
17	A80401000	38.850	122.716	2960	HOBERGS	.00-	6.34	.00-	.00-	.00-	.00-	.00-	2.38	.04	.00	.00	.00-	.00-
5	B20401800	38.150	120.819	554	HOBAN DAM	25.84	3.51	4.70	5.14	2.31	1.38	3.93	2.29	.00	.73	1.85	.00	.00
39	B90404100	37.928	121.391	0	HOLT 2 ESE	15.73	2.09	3.07	2.98	1.63	.54	2.17	2.70	.00	.24	.31	.00	.00
04	A00407500	39.327	121.526	113	HONCUT	33.97	2.65	8.15	5.64	4.50	1.93	6.74	2.03	.11	.30	1.92	.00	.00
17	A80409700	39.016	123.000	2510	HOPLAND ONE	.00-	2.88	.00-	.00-	.00-	.00-	11.44	2.41	.00	.00	.90	.36	.00
45	A30421900	40.561	122.569	1090	IOO 2W	58.49	3.09	14.80	7.39	10.87	3.75	12.18	2.67	.24	.89	2.30	.31	.00
31	B70422850	39.283	119.966	7000	INCLINE VILLAGE - JAME	27.06	1.38	6.57	5.41	3.64	1.54	5.23	1.61	.08	.00T	1.26	.34	.00T
03	B00428300	38.348	120.938	284	IONE	.00-	3.01	6.32	7.20	5.11	1.73	.00-	8.33	.00	.67	1.43	.00	.00
31	A70428800	39.088	120.839	3056	IOWA HILL	75.29	3.57	19.59	13.80	9.48	4.86	14.71	4.40	.08	.47	4.25	.08	.00
3	B20432100	38.360	120.789	1550	JACKSON 1 NW	35.00	3.48	7.17	7.67	4.64	2.31	4.28	2.54	.00	.88	2.03	.00	.00
52	A00434600	40.329	122.203	355	JELLY	30.64	2.33	8.06	4.76	4.07	1.77	5.82	1.49	.05	.31	1.98	.00T	.00
5	B00435200	38.075	120.911	235	JENNY LIND 3SW	22.50	2.78	3.59	4.57	2.71	1.01	3.01	2.77	.00	.75	1.31	.00	.00
25	A10437400	41.265	120.379	5290	JESS VALLEY	18.44	1.16	3.40	2.44	2.11	1.42	3.14	1.62	.70	.12	.81	1.32	.08
06	A00439000	38.956	121.969	60	JOHNS SCHOOL	18.49	1.52	5.17	3.23	2.85	.34	3.35	.89	.00	.00	1.14	.00	.00
09	A70448400	38.816	120.816	2000	KELSEY IN	50.45	3.15	12.52	8.92	5.71	2.64	9.44	3.74	.01	.65	3.67	.00	.00
17	A80448800	38.975	122.831	1385	KELSEYVILLE	38.59	1.91	10.20	5.85	7.34	2.44	9.01	1.18	.01	.00	.63	.02	.00
17	A80449101	39.001	122.834	1345	KELSEYVILLE 2 N	.00-	1.85	9.88	5.25	6.22	2.82	7.27	1.56	.00T	.00	.00-	.00-	.00-
39	B80450800	37.676	121.432	172	KERLINGER	9.25	1.16	1.33	2.50	1.08	.29	1.50	1.11	.00	.00T	.26	.00	.00
45	A40454400	41.010	121.871	2650	KILCAR PH	66.64	4.76	14.07	12.48	12.73	5.25	11.49	3.21	.17	.24	1.89	.35	.00
09	A70461600	38.795	120.145	5700	KYBURZ STRAWBERRY	.00-	4.40	12.65	.00-	.00-	.00-	.00-	13.67	.45	.07	3.39	.45	.00
17	A80470100	39.033	122.916	1343	LAKEPORT	42.15	1.93	12.61	5.83	7.74	3.64	7.57	1.82	.07	.00	.66	.28	.00
57	A00471200	38.492	122.502	180	LAKE SOLANO	24.10	.89	7.19	3.94	3.60	.64	5.76	1.22	.00	.05	.61	.00	.00
29	A60471300	39.318	120.637	5156	LAKE SPAULDING	102.52	4.54	27.73	14.69	14.15	6.45	21.00	6.91	.23	.21	6.41	.20	.00
04	A50472200	39.763	121.521	2040	LAKE WILENOR	93.42	6.10	27.63	11.51	13.64	6.23	18.95	5.67	.17	.51	2.98	.03	.00
57	A00473000	38.675	122.072	365	LAMB VALLEY	24.68	1.17	6.34	4.41	4.15	1.14	5.07	1.35	.00	.10	.95	.00	.00
32	A60477300	39.682	120.982	4975	LA PORTE	.00-	.00-	.00-	.00-	19.79	11.46	29.40	.00-	.00-	.00-	.00-	.00-	.00-
18	B40481420	40.401	120.513	4100	LASSEN CONSRVATN CNTR	10.54	.70	2.86	1.94	1.38	.46	2.82	.20	.00	.00	.00	.18	.00
06	A00488000	39.153	122.436	1336	LEESVILLE KEEGAN RANCH	26.77												

TABLE A-1 (Cont.)

## PRECIPITATION IN NORTHEASTERN CALIFORNIA DURING WATER YEAR 1974

CO	STA NO	LAT	LONG	ELEV	STATION NAME	TOTAL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
18	020523100	41.055	120.471	5231	MADELINE HMS	.00-	.91	2.70	1.78	.00-	.00-	.00-	.00-	.00-	.00-	.00-	.00-	.00
17	080525000	38.850	122.783	2380	MAHNE	.00-	4.52	.00-	27.25	.00-	.00-	13.09	2.42	.00	.00	1.20	.00	.00
52	A40529902	40.436	121.766	3250	MANTON 6 E	63.34	4.07	14.63	10.29	11.11	4.42	11.79	3.71	.85	.83	1.50	.14	.00
39	080530300	37.800	121.200	40	MANTECA	14.57	1.86	2.34	3.22	1.63	.59	1.73	2.08	.00T	.24	.88	.00T	.00
45	A40531100	40.533	121.566	5850	MANZANITA LAKE	54.07	4.33	13.86	5.24	7.71	4.71	11.59	2.97	1.07	.26	2.02	.31	.00
51	A00531110	39.334	121.682	87	MANZANITA FS	30.39	2.03	9.65	3.10	3.91	1.67	6.35	2.04	.20	.14	1.30	.00T	.00
02	080535600	38.692	119.782	5546	MARKLEEVILLE	.00-	1.76	.00-	11.09	4.90	2.63	5.10	1.06	.05	.00	1.40	.35	.00
28	A90536000	38.500	122.116	480	MARKLEY COVE	31.40	1.61	8.36	4.44	5.76	.91	8.43	1.18	.00T	.01	.60	.10	.00
58	A00538500	39.146	121.584	60	MARYSVILLE	28.35	2.40	7.38	4.96	3.39	1.48	4.98	1.44	.00T	.58	1.68	.06	.00
34	A00540300	38.566	121.300	90	MATHER A F B	20.68	1.92	5.28	3.05	2.84	1.25	2.97	1.58	.00	.44	1.35	.00T	.00
06	A00540901	39.276	122.186	91	MAXWELL	13.62	1.66	4.04	1.96	1.67	.66	2.06	.74	.00	.02	.74	.07	.00
45	A10543030	41.016	121.650	2980	MCARTHUR-BURNEY FALLS	47.36	1.87	10.16	8.89	9.18	3.16	9.78	1.84	.49	.16	1.27	.56	.00
34	A00544700	38.660	121.391	70	MC CLELLAN AFB	26.59	1.62	7.53	4.05	3.54	1.97	4.60	1.79	.00	.24	1.25	.00T	.00
47	A20544900	41.266	122.133	3300	MC CLOUD	.00-	6.12	18.62	7.23	14.49	6.13	13.02	2.95	.02	.68	.00-	.62	.00
31	A70558800	39.044	120.740	3650	MICHIGAN BLUFF	.00-	3.29	.00-	.00-	35.89	.00-	17.10	4.60	.03	.39	3.85	.06	.00
17	A90559800	38.748	122.617	1122	MIDDLETOWN	65.43	4.50	18.16	8.89	10.11	4.26	15.61	2.68	.10	.00	1.12	.00	.00
18	060562100	40.174	120.363	4140	MILFORD	20.82	2.21	3.76	3.42	2.66	.58	5.71	.48	.01	.00T	1.58	.41	.00
18	060562300	40.133	120.350	4860	MILFORD LAUFMAN R S	.00-	2.35	.00-	.00-	.00-	3.53	3.31	.85	.05	.07	1.43	.08	.00
52	A00567900	40.350	120.600	4910	MINERAL	94.05	7.26	25.93	11.10	18.67	3.28	18.46	4.64	1.48	.48	2.55	.20	.00
32	A50575200	39.786	120.632	4370	MOHAWK R S	47.09	3.45	12.82	5.51	8.16	2.39	7.93	4.53	.10	.10	1.94	.16	.00
5	B20576305	38.295	120.615	1920	MOKELUMNE HILL SE	41.51	4.15	7.52	8.26	3.87	2.00	8.46	3.57	.00T	.53	3.35	.00	.00
60	B80588400	37.750	121.583	200	MOUNTAIN HOUSE	12.73	1.70	3.36	3.08	1.05	.54	1.75	1.04	.00	.15	.06	.00	.00
5	B20589205	38.240	120.567	2200	MOUNTAIN RANCH 2 NW	48.64	3.33	8.41	10.24	4.53	2.36	11.88	5.29	.01	.40	2.19	.00	.00
47	A20598300	41.316	122.316	3544	MOUNT SHASTA CITY	60.98	5.08	17.22	5.34	13.11	4.97	10.22	3.10	.12	.62	.67	.53	.00
5	B20603903	38.185	120.469	1880	MURPHYS 2 N	46.92	3.36	8.85	8.34	5.90	2.06	11.58	4.15	.00	.36	2.32	.00	.00
34	A00609200	38.685	121.623	17	NATOMAS F S 2	.00-	1.28	6.11	2.25	3.00	1.65	2.69	.55	.00-	.00-	.00-	.00-	.00-
04	A00613000	39.550	121.783	120	NELSON WESTERN CAMP	30.32	2.66	9.13	4.78	3.77	1.74	5.75	1.11	.02	.28	1.08	.00T	.00
29	A00613600	39.258	121.010	2520	NEVADA CITY	80.76	4.57	26.15	8.53	12.56	6.52	14.27	4.27	.20	.40	3.19	.10	.00
29	A00613629	39.248	121.028	2710	NEVADA CITY R S	.00-	3.74	17.93	6.12	9.84	6.84	9.84	5.43	.00T	.00-	.00-	.00-	.00-
31	A00615400	38.891	121.219	250	NEWCASTLE FOWLER	35.11	2.53	6.81	5.88	4.75	1.69	5.95	2.76	.00	.78	1.96	.00	.00
51	A00615700	39.061	121.588	50	NEW ENGLAND ORCHARD	25.44	1.64	6.87	4.44	2.93	1.26	4.83	1.42	.00	.41	1.55	.09	.00
31	A00619400	38.924	121.543	43	NICOLAUS 2	23.49	1.36	5.56	4.51	3.19	1.01	4.57	.87	.00	1.04	1.38	.00	.00
04	A00621600	39.805	121.906	180	NORD	29.78	2.41	8.47	4.38	3.93	.92	6.87	1.37	.12	.16	1.15	.00T	.00
19	A00623200	39.367	120.898	3280	NORTH BLOOMFIELD	78.00	5.00	23.90	9.50	10.20	6.20	16.10	3.40	.20	.30	3.10	.10	.00
34	A00627100	38.646	121.474	26	NORTH SACRAMENTO	.00-	1.55	5.07	4.00	3.61	1.12	4.24	.00-	.00-	.00-	.00-	.00-	.00-
29	A00627400	39.370	121.011	2081	NORTH SAN JUAN	74.46	4.83	19.69	12.38	9.98	5.13	14.01	3.73	.02	.00T	4.69	.00	.00
58	A00627500	39.410	121.064	1815	NORTH SAN JUAN 4NE	75.68	4.80	21.22	12.69	8.59	5.34	14.71	4.50	.03	.40	3.96	.02	.00
45	A10641500	40.674	121.431	4380	OLD STATION	32.06	1.60	7.37	4.34	5.21	3.42	5.46	1.32	.17	.17	1.67	1.33	.00
45	A30645500	40.483	122.616	980	ONO	51.50	3.38	12.37	7.70	8.97	1.56	8.27	5.34	.00	.00	3.91	.00	.00
11	A00650500	39.618	122.320	312	ORLAND FRENCH RANCH	19.16	2.37	5.14	3.06	2.81	.53	2.82	1.60	.00T	.03	.80	.00T	.00
11	A00650800	39.750	122.200	254	ORLAND	24.47	3.07	7.14	4.12	3.72	.82	3.23	.79	.17	.09	1.32	.00	.00
04	A00652100	39.506	121.556	171	OROVILLE	37.76	2.31	10.04	5.94	5.12	2.89	7.27	2.31	.08	.20	1.60	.00T	.00
04	A00652500	39.507	121.567	185	OROVILLE BRIDGE	38.23	2.25	9.91	6.75	5.01	2.22	7.94	2.35	.08	.17	1.55	.00T	.00
04	A50652700	39.527	121.479	845	OROVILLE DAM	46.20	3.18	11.81	7.03	6.13	2.43	10.11	2.57	.83	.20	1.91	.00T	.00
04	A00652900	39.525	121.587	300	OROVILLE R S	.00-	.00-	.00-	4.00	5.60	3.60	6.20	1.90	.10	.20	.00-	.00-	.00-
5	B00655105	38.121	121.944	280	OSPITAL RANCH	.00-	2.80	3.70	4.60	2.20	1.20	2.40	.00N	.00-	.00-	.00-	.00-	.00-
09	A70659700	38.750	120.500	3440	PACIFIC HOUSE	68.68	4.72	13.23	13.20	10.11	5.00	11.53	5.51	.00T	.29	5.29	.00T	.00
04	A00662000	39.435	121.548	156	PALERMO	33.52	2.25	8.21	5.36	4.48	2.37	7.30	2.17	.28	.20	.90	.00	.00
45	A40664705	40.593	122.231	580	PALO CEDRO 2N	54.29	1.22	15.97	7.29	8.82	5.31	9.98	3.30	.00T	.00T	2.00	.40	.00
04	A40668500	39.766	121.633	1700	PARADISE	86.15	4.90	25.21	9.78	10.34	5.63	22.48	4.81	.26	.24	2.50	.00T	.00
04	A50669704	39.677	121.563	950	PARISH CAMP	50.56	3.44	14.70	7.47	7.70	3.77	9.08	2.35	.17	.24	1.66	.00	.00
52	A00672600	39.883	122.533	755	PASKENTA R S	28.18	2.03	6.86	4.85	3.94	1.27	5.10	2.70	.13	.20	1.10	.00	.00
52	A00676100	40.333	121.900	1850	PAYNES CREEK	46.73	3.80	10.25	7.79	8.10	2.75	9.06	2.90	.43	.34	1.23	.08	.00
3	B20689800	38.412	120.639	2350	PINE GROVE CONS CAMP	51.25	5.88	10.13	7.78	5.66	3.67	7.88	6.05	.00	.33	3.87	.00	.00
45	A10694400	41.000	121.500	2880	PIT RIVER PH	23.87	1.39	3.62	4.90	4.88	1.56	4.71	.96	.38	.18	.84	.45	.00
45	A10694600	40.983	121.983	1458	PIT RIVER PH NO 5	128.85	8.64	38.61	15.34	23.51	7.75	24.98	6.26	.22	.51	2.38	.65	.00
07	B0694900	38.023	121.855	14	PITTSBURG DOW CHEMICAL	11.71	1.18	3.40	2.27	1.01	.40	2.01	1.13	.00	.05	.26	.00	.00
09	A70966000	38.729	120.797	1890	PLACERVILLE	49.80	3.46	10.37	8.65	6.01	2.82	10.01	4.13	.00	.70	3.62	.03	.00
09	A70966200	38.739	120.741	2755	PLACERVILLE IFB	54.92	3.51	11.93	10.22	6.95	3.30	10.01	4.18	.00	.46	4.36	.00T	.00
09	A70966400	38.732	120.845	1546	PLACERVILLE DISP PLT	.00-	3.10	.00-	8.00	5.80	2.90	9.50	3.60	.00	.80	3.20	.00	.00
57	A00966800	38.598	122.866	65	PLAINFIELD 1 NW	19.17	.95	4.82	3.82	3.05	.50	4.20	.76	.00	.41	.56	.10	.00
45	A30967500	40.366	122.883	2240	PLATINA	.00-	3.50	12.19	5.45	5.25	3.74	4.55	1.77	.00-	.00-	.00-	.00-	.00-
48	A90967700	38.467	122.043	250	PLEASANTS VALLEY	31.96	1.33	9.19	5.18	5.30	1.11	7.66	1.48	.00T	.05	.66	.00	.00
32	A50999800	39.756	120.697	5165	PLUMAS EUREKA PARK	110.58	7.04	32.83	12.68	18.01	5.81	23.61	4.28	.05	.28	4.56	1.43	.00
3	B10700001	38.505	120.812	1485	PLYMOUTH 3 NE	37.49	2.86	9.13	6.45	5.09	2.44	5.60	2.90	.00	.82	2.40	.00	.00
3	B10700003	38.517	120.932	445	PLYMOUTH 6 NW	32.44	2.98	6.20	6.53	4.72	1.58	4.61	2.53	.00	.82	2.47	.00	.00
28	A90705800	38.615	122.369	610	POPE VALLEY 2 E	41.64	2.44	11.73	5.85	5.66	3.14	9.94	2.21	.03	.00T	.64	.00T	.00
32	A50706500	39.404	120.471	4838	PORTOLA	.00-	.00-	.00-	.00-	3.00	2.30	8.08	.81	.00	.14	1.23	.81	.00
3	B20713600	38.363	120.936	350	PRESTON SCHOOL	29.14	3.34	6.37	5.74	3.37	1.20	3.64	3.73	.00	.64	1.11	.	



TABLE A-1 (Cont.)

## PRECIPITATION IN NORTHEASTERN CALIFORNIA DURING WATER YEAR 1974

CO	STA NO	LAT	LONG	ELEV	STATION NAME	TOTAL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
34	800763334	38.553	121.133	190	SAC COUNTY BOYS RANCH	.00-	2.84	6.25	4.65	4.17	1.24	5.56	2.67	.00-	.00-	.00-	.00-	.00-
11	400763500	39.429	122.184	95	SACRAMENTO REFUGE	16.99	2.07	5.51	1.68	2.80	.94	2.45	.79	.00	.007	.74	.01	.00
29	070764100	39.431	120.240	6337	SAGEHEN CREEK	38.67	2.40	9.67	5.77	5.64	2.34	7.83	1.52	.35	.00	2.83	.32	.00
3	820764900	38.497	120.216	3700	SALT SPRINGS PH	58.44	4.55	12.88	10.86	5.79	2.93	11.74	5.32	.23	.28	3.41	.45	.00
5	820770100	38.192	120.601	1120	SAN ANDREAS	36.06	2.84	6.44	7.11	3.60	1.34	7.20	3.08	.00	.59	3.78	.00	.00
5	820770200	38.163	120.671	830	SAN ANDREAS 2 S	35.35	2.77	6.65	7.40	3.71	1.41	7.34	3.15	.00	.58	2.34	.00	.00
5	820770500	38.192	120.669	1100	SAN ANDREAS R S	34.86	2.95	8.16	6.07	3.02	2.13	6.94	2.42	.007	.60	2.57	.00	.00
46	800802900	39.600	120.903	4300	SCALES	131.14	7.02	36.42	17.11	21.14	8.44	28.54	6.34	.10	.50	5.10	.43	.00
10	840807400	40.523	120.266	4435	SECRET VALLEY	6.44	.70	1.49	1.04	.56	.33	1.22	.13	.09	.007	.05	.83	.00
29	460811229	39.329	121.106	2010	SHADY CREEK	54.17	3.65	16.42	7.54	7.03	3.60	9.71	2.22	.11	.41	3.42	.06	.00
45	820813500	40.716	122.416	1876	SHASTA DAM	95.05	5.05	27.62	11.70	15.96	4.56	19.02	5.83	.46	.57	4.03	.25	.00
95	820814500	38.209	120.463	2350	SNEEP RANCH	44.30	3.40	9.90	6.30	4.90	2.00	11.30	3.90	.00	.20	2.40	.00	.00
29	460817500	40.494	121.846	3540	SHINGLETON 2 E	67.38	5.95	16.02	10.15	11.57	4.23	11.74	4.54	.84	.38	1.80	.16	.00
46	460820700	39.564	120.639	4150	SIERRA CITY	102.72	6.55	28.72	13.09	14.39	6.44	22.56	4.98	.25	.11	5.46	.17	.00
46	460821800	39.583	120.368	4975	SIERRAVILLE RS	35.14	1.03	8.70	6.15	5.07	1.09	7.72	1.23	.35	.07	2.23	.70	.00
34	800823100	38.483	121.206	123	SLOUGHHOUSE 15W	.00-	2.89	6.44	4.94	4.27	.86	4.56	3.03	.00	.65	.00-	.00-	.00-
50	460830000	39.202	121.287	800	SMARTSVILLE	42.95	3.49	11.40	7.18	5.47	1.97	8.05	3.70	.007	.30	1.39	.00	.00
29	460833200	39.325	120.366	6885	SODA SPRINGS 1 E	81.43	4.40	20.89	11.97	11.69	6.48	14.48	5.00	.55	.19	4.81	.97	.00
9	810834409	38.620	120.590	3160	SOMERSET S ESE	48.26	3.12	9.84	9.46	6.41	3.13	8.52	3.52	.00	.28	3.98	.00	.00
26	800835500	38.351	119.448	6806	SONORA JUNCTION	16.95	1.13	4.14	2.60	2.59	.52	2.82	.79	.41	.05	1.20	.62	.00
31	870847400	39.196	120.236	6235	SQUAW VALLEY	74.26	3.12	16.27	11.27	12.35	4.61	13.06	4.51	.17	.0075	.71	1.19	.007
40	450854400	39.904	121.527	3518	STIRLING CITY R S	.00-	8.00	32.20	12.60	18.30	10.30	24.80	.00-	.40	.30	2.80	.00	.00
39	800855400	37.935	121.327	11	STOCKTON DISPOSAL PLT	.00-	2.00	3.00	.00-	1.50	.50	2.10	2.50	.00	.20	.50	.00	.00
39	800855800	37.900	121.250	22	STOCKTON WBAF	18.41	2.08	3.66	3.87	1.73	.74	2.59	2.79	.00	.34	.61	.00	.00
39	800856000	38.000	121.316	12	STOCKTON FIRE STATION	16.22	2.11	3.18	2.90	2.52	.69	2.23	1.90	.00	.24	.45	.00	.00
06	430857800	39.255	122.658	3026	STONYFORD COOLEY RCH	83.11	5.31	22.23	11.67	14.45	7.05	16.66	3.54	.41	.50	1.20	.09	.00
06	430858000	39.383	122.545	1160	STONYFORD R S	25.00	1.47	6.33	4.39	4.50	1.47	4.64	1.21	.00	.23	.70	.06	.00
11	430858700	39.583	122.533	770	STONY GORGE RES	24.08	1.72	5.72	3.78	4.58	.92	4.02	1.13	.19	1.48	.84	.30	.00
58	460860600	39.563	121.108	3800	STRAWBERRY VALLEY	116.61	6.85	36.61	15.43	16.24	7.01	26.00	5.20	.25	.33	4.67	.02	.00
10	840870200	40.383	120.550	4148	SUSANVILLE AP	17.45	1.33	4.72	2.86	2.27	1.00	3.93	.54	.07	.01	.57	.15	.00
18	840870300	40.433	120.666	4555	SUSANVILLE 1WNH	.00-	1.26	.00-	7.11	2.36	.00-	6.61	.78	.21	.05	1.71	.00	.00
3	820871300	38.377	120.800	1586	SUTTER HILL RS	.00-	3.63	7.68	6.27	5.71	2.19	5.68	.00-	.00-	.00-	.00-	.00-	.00-
10	820887200	40.811	120.560	5320	TERMO 6 SW	.00-	1.11	3.46	.71	.30	.31	2.61	.16	.00-	.00-	.00-	.00-	.00-
18	820887300	40.866	120.450	5300	TERMO	8.83	.62	2.72	1.19	.77	.44	1.60	.56	.36	.13	.41	.03	.00
04	400894004	39.508	121.883	141	THERMALITO AFTERBAY	29.81	1.40	8.63	4.46	3.99	2.27	5.81	1.88	.00	.21	1.14	.00	.00
3	820892800	38.449	120.491	2355	TIGER CREEK PH	59.76	4.88	12.35	11.55	6.05	3.47	11.67	5.89	.03	.30	3.57	.00	.00
51	400893301	39.028	121.779	30	TISDALE BYPASS	19.55	1.79	5.14	3.58	2.85	1.04	2.86	.99	.00	.03	1.27	.00	.00
34	400898434	38.606	121.405	50	TOWN AND CNTRY MITCHL	26.52	1.90	6.44	4.51	3.73	.99	4.63	2.02	.00	.60	1.29	.41	.00
39	890899500	37.737	121.424	53	TRACY FIRE STATION	10.72	1.09	1.99	2.49	.95	.31	1.56	1.75	.00	.37	.21	.00	.00
39	890899700	37.708	121.410	108	TRACY 25SE	10.10	1.00	1.66	2.56	.98	.26	1.68	1.59	.00	.08	.29	.00	.00
39	890899900	37.695	121.413	137	TRACY CARBONA	11.40	1.24	1.84	2.77	1.30	.40	1.81	1.66	.00	.02	.36	.00	.00
34	890900100	37.795	121.501	61	TRACY PUMPING PLANT	13.00	1.35	3.36	2.80	2.03	.26	1.82	1.23	.00	.05	.10	.00	.00
29	070904300	39.329	120.188	5995	TRUCKEE R S	34.07	1.99	7.51	6.21	5.01	2.11	6.71	1.68	.15	.01	2.10	.59	.00
32	450909500	40.019	121.070	2840	TWIN	.00-	3.92	16.85	8.55	9.86	5.22	13.30	1.82	.79	.23	.00-	.00-	.00-
02	470910500	38.706	120.640	7829	TWIN LAKES	62.69	4.09	16.13	12.47	5.90	2.96	10.48	5.54	.54	.08	4.00	.50	.007
17	480916700	39.183	123.033	1526	UPPER LAKE 7 W	57.79	3.40	16.54	7.15	8.32	5.75	11.35	3.88	.40	.02	.94	.04	.00
48	490920000	38.360	121.949	104	VACAVILLE	27.22	1.35	8.93	4.23	4.20	.71	4.85	1.73	.007	.00	1.22	.00	.00
5	820923500	38.192	120.830	695	VALLEY SPRINGS	30.04	3.62	4.81	7.12	3.27	1.27	4.39	3.18	.00	.69	1.69	.00	.00
5	800923700	38.132	120.902	360	VALLEY SPRINGS 6SW	23.98	2.75	3.83	4.77	2.70	1.27	3.20	3.28	.00	.73	1.37	.00	.00
51	400930700	38.790	121.995	43	VERONA	18.75	.98	4.50	3.72	3.25	.76	3.21	.74	.00	.74	.85	.00	.00
52	400934200	39.938	122.061	202	VINA MONASTERY	29.21	2.76	8.23	4.16	4.45	1.10	5.20	.98	.05	.16	2.09	.03	.00
32	450935100	39.818	120.188	4945	VINTON	13.33	1.26	2.66	2.41	1.09	.77	2.54	.77	.01	.05	1.28	.49	.00
45	400936000	40.950	122.433	1360	VOLLMERS	123.98	13.85	35.31	15.05	18.66	6.95	25.06	6.59	.01	.55	1.81	.14	.00
45	400939000	40.450	121.866	2200	VOLTA PH	46.96	4.02	10.87	7.98	8.45	3.02	7.66	2.54	.55	.21	1.51	.15	.00
5	800941800	38.181	120.962	214	WALLACE 1 NNE	22.62	2.78	4.74	4.71	2.78	.80	2.60	2.13	.00	.83	1.25	.00	.00
34	890942800	38.237	121.516	26	WALNUT GROVE	.00-	1.60	5.25	2.67	2.61	.79	2.66	1.07	.00-	.00-	.00-	.00-	.00-
18	860952600	40.266	120.073	4035	WENDEL 10 SE	6.34	.80	.96	.87	.82	.00	1.50	.64	.00	.00	.75	.00	.00
18	840952601	40.350	120.208	4040	WENDEL 1 E	6.75	.60	1.41	.46	1.02	.38	1.55	.83	.03	.04	.41	.02	.00
57	400953000	38.576	121.536	15	WEST ACRES	23.66	1.62	5.49	4.28	4.08	.66	3.87	1.31	.00	.51	1.84	.00	.00
5	820958200	38.400	120.355	2746	WEST POINT	52.76	3.88	8.94	7.72	13.20	2.41	8.74	4.17	.07	.29	3.34	.00	.00
58	400960500	39.027	121.389	105	WHEATLAND 2 NE	27.31	1.97	8.88	3.61	3.12	1.69	4.17	1.40	.00	.72	1.75	.00	.00
45	430962100	40.616	122.533	1310	WHISKEYTOWN RESERVOIR	99.52	5.31	27.78	10.53	17.83	4.99	18.52	6.31	.26	.75	7.08	.16	.00
06	400967700	39.150	122.150	90	WILLIAMS	15.56	1.60	3.68	2.39	2.65	.44	3.00	.90	.00	.02	.88	.00	.00
18	400969031	40.566	120.666	4930	WILLOW CR MURRER RCH	19.70	1.26	4.84	2.25	2.91	.96	5.90	.73	.67	.007	.67	.11	.00
25	410969600	41.982	120.355	4750	WILLOW RANCH	7.13	1.42	1.06	.29	.34	.76	.85	.54	.59	.21	.99	.08	.00
11	400969900	39.533	122.200	140	WILLOWS	18.44	1.53	5.95	2.57	2.81	.52	2.97	.98	.05	.03	1.00	.03	.00
57	400974200	38.522	121.968	135	WINTERS	21.85	.86	6.72	3.90	3.68	.46	4.57	1.04	.00	.10	.50	.02	.00
57	400974204	38.598	122.043	320	WINTERS SCOTTY RANCH	.00-	1.10	7.83	3.82	4.54	1.65	3.97	1.55	.05	.007	.00-	.00-	.00-
46	400974205	38.466	121.958	140	WINTERS UDELL RCH	25.63	.98	7.61	4.48	4.48	.85	5.38	1.43	.007	.05	.57	.00	

TABLE A-2

## INDEX OF STORAGE GAGE PRECIPITATION STATIONS

This table lists and shows location and other information for the storage gages for which the seasonal accumulation of precipitation is reported in the following table. These gages are located in the remote mountain regions where no observers are available to operate conventional rain gages. Storage precipitation gages are tanks with capacity for storing an entire year's rainfall along with antifreeze to melt frozen precipitation and oil to prevent evaporation losses. Once each year, in the summer or early fall, the precipitation that has accumulated since the last measurement is measured and then emptied out. With the addition of the proper amount of oil and antifreeze, the gage is ready to receive the next season's amount. Although logistics preclude conducting the measurement operation exactly at the end of the water year and exactly one year following the previous measurement, the gages fairly accurately depict the total precipitation for the water year because usually a very small amount of precipitation occurs in the summer months.

An explanation of the column headings and the code symbols used in connection with the storage gage station listing follows:

Station Number - Each station in these tables has been assigned an identification number as explained in the Introduction to this appendix.

40-Acre Tract - This denotes the location of the station within a section subdivision of the U. S. Public Land Survey. The letter code is derived from the section diagram to the right.

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian - The code for this column is as follows:

M - Mount Diablo Base and Meridian

Cooperator Number - This number is assigned from the following list:

000	Private Cooperators
419	Tehama County Flood Control and Water Conservation District
814	California Department of Water Resources, Snow Surveys
900	National Weather Service
903	U. S. Corps of Engineers
905	U. S. Forest Service
911	Military Weather Stations in California

County - This is a standard code for California counties and is explained in the Introduction to Table A-1.

TABLE A-2 (Cont.)  
INDEX OF STORAGE GAGE PRECIPITATION STATIONS  
NORTHEASTERN CALIFORNIA

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name							O	I	II	O	I	II						
A3 0093	ALDER SPRINGS	4400	SEC 24	T21N	R08W	G	M	39	39	39	122	42	26	903		1966			11
A3 0468	BALL MOUNTAIN LOOKOUT	6500	SEC 17	T24N	R08W		M	39	56	00	122	47	00	900		1948			52
A1 0867	BLACKS MOUNTAIN	7200	SEC 33	T34N	R07E		M	40	46	00	121	12	00	900		1941	05		18
A5 1002	BOULDER CREEK GUARD STATION	5020	SEC 15	T27N	R12E	G	M	40	11	52	120	36	45	905		1964			32
G7 1096	BROCKWAY SUMMIT	7200	SEC 03	T16N	R17E	K	M	39	16		120	04		903		1961			29
A7 1133	BRUSHY SPRINGS GUARD STATION	4880	SEC 06	T13N	R13E	M	M	39	00	20	120	34	40	000		1951			31
A1 1238	BUTTE LAKE	6060	SEC 10	T31N	R06E	F	M	40	33	48	121	18	06	900	041237	1960			18
A5 1348	CAMEL PEAK	5560	SEC 32	T22N	R08E	H	M	39	43	26	121	05	58	000		1967			32
G3 1644	CHAMPS FLAT	5590	SEC 27	T33N	R09E	M	M	40	41	42	120	57	30	000		1959			18
A5 1783	CLARKS PEAK 1 NE	5910	SEC 10	T27N	R13E	H	M	40	12	50	120	29	34	000		1958			32
A5 1845-32	CLOVER VALLEY	5500	SEC 07	T24N	R14E	R	M	39	56	40	120	27	00	000		1965			32
A1 2320	DEAD HORSE RESERVOIR 2 SE	5075	SEC 35	T45N	R12E	L	M	41	42	00	120	33	00	000		1959			25
A4 2335	DEER CREEK FLAT	1910	SEC 14	T25N	R01E	J	M	40	01	16	121	49	34	419	PN2335	1960	1973		52
A4 2416	DEWITT PEAK 2 WSW	1480	SEC 33	T27N	R01W	R	M	40	08	43	121	58	23	419		1960			52
G2 2460	DODGE RESERVOIR 3 NNE	6400	SEC 11	T36N	R16E	C	M	41	00	30	120	07	30	000		1959			18
A7 3153	FORNI RIDGE	7600	SEC 16	T11N	R16E		M	38	48		120	13		814		1966			09
A7 3388	GERLE CREEK CAMP	5400	SEC 11	T13N	R14E	L	M	38	59	06	120	22	45	000		1945			09
A5 3549-32	GRANITE SPRING	5765	SEC 13	T26N	R14E	J	M	40	06	23	120	20	34	000		1965			32
B2 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38	29	48	119	47	48	000	003954	1960			02
A4 4019	HOGBACK ROAD	1320	SEC 05	T27N	R01W	F	M	40	13	27	122	00	03	419		1960			52
A1 4815	LASSEN CREEK UPPER	6775	SEC 21	T45N	R15E	R	M	41	45		120	14	42	000		1958			25
A5 4932	LIGHTS CREEK	5320	SEC 02	T27N	R11E	F	M	40	13	48	120	42	30	000		1959			32
A5 4977	LITTLE LAST CHANCE VALLEY	5730	SEC 05	T24N	R16E	M	M	39	57	40	120	13	00	000		1959			32
A3 5043	LOG SPRING	5050	SEC 29	T23N	R08W	D	M	39	49	36	122	47	29	903		1964			52
A1 5081-01	LONG BELL STATION	4375	SEC 20	T42N	R05E	B	M	41	28	00	121	25	00	000		1958			25
G7 5163	LOWER MEADOW	5760	SEC 25	T20N	R17E	A	M	39	33	42	120	01	54	911		1957	1972		46
B1 5189	LUMBERYARD	6480	SEC 15	T08N	R15E	F	M	38	32	55	120	18	24	000		1967			09
A4 5444	MCCARTHY POINT	3800	SEC 19	T27N	R03E		M	40	11	00	121	41	00	900		1945			52
A1 5505	MEDICINE LAKE	6725	SEC 10	T43N	R03E	C	M	41	35	00	121	37	00	900		1946			47
A5 5956	MT HOUGH SNOWCOURSE	6760	SEC 08	T25N	R10E	J	M	40	02	29	120	52	43	000		1964			32
A2 5982	MT SHASTA SLOPE	7500	SEC 30	T41N	R03W	Q	M	41	22	00	122	16	00	900		1947			47
A3 6212	NOEL SPRING	5000	SEC 05	T19N	R07W	B	M	39	32	16	122	40	03	903		1964			11
A5 6452	ONION VALLEY	6530	SEC 05	T22N	R10E	G	M	39	48	00	120	53	06	000		1959			32
A1 6750	PATTERSON MEADOW	7000	SEC 29	T39N	R16E		M	41	11	00	120	12	00	000		1958			25
A1 6803	PEPPERDINES CAMP	6650	SEC 28	T42N	R15E	F	M	41	26	30	120	14	00	000		1958			25
A7 7492	ROBERTSON FLAT	6740	SEC 11	T15N	R13E	N	M	39	09	26	120	30	06	000		1946			31
A3 7637	SADDLE CAMP RANGER STATION	3850	SEC 30	T27N	R08E		M	40	10	00	122	48	00	900		1945			52
A2 8591	STOUTS MEADOW	5300	SEC 01	T38N	R01W	B	M	41	10	00	121	56	00	900		1946			45
A5 8716	SWAIN MOUNTAIN	6160	SEC 20	T30N	R08E	J	M	40	26	40	121	06	00	000		1957			32
A1 8718	SNEAGERT FLAT	6000	SEC 11	T39N	R10E	F	M	41	14		120	47	30	000		1958			25
A7 8881	THE CEDARS	5900	SEC 13	T16N	R14E	L	M	39	15	00	120	21	12	000		1945			31
A5 8909	THREE MILE VALLEY	5900	SEC 36	T24N	R12E	A	M	39	54	05	120	34	15	000		1959			32
A3 9037	TROUGH SPRING	4000	SEC 28	T17N	R07W	L	M	39	17	48	122	39	11	903		1964			06
A4 9098	TWENTY MILE HOLLOW	2800	SEC 07	T26N	R02E	F	M	40	07	33	121	48	12	000		1960			52
A7 9597	WESTVILLE	5290	SEC 05	T15N	R12E	J	M	39	10	30	120	39	08	000		1948			31
A7 9816	WRIGHTS LAKE	6950	SEC 32	T12N	R16E	J	M	38	50	30	120	14	02	900		1946			09

TABLE A-3  
STORAGE GAGE PRECIPITATION DATA

Station	Agency	1973-74 Season		
		Measurement Period		Precipitation in Inches
SACRAMENTO RIVER BASIN				
PIT RIVER A1				
BLACKS MOUNTAIN	DWR Northern District	6-25-73	6-17-74	28.23
BUTTE LAKE	DWR Northern District	7- 2-73	6-28-74	65.53
DEAD HORSE RESERVOIR 2 SE	DWR Northern District	6-27-73	6-20-74	15.10
LASSEN CREEK UPPER	DWR Northern District	6-27-73	6-19-74	20.83
LONG BELL STATION	DWR Northern District	6-21-73	6-20-74	43.31
MEDICINE LAKE	DWR Northern District	6-21-73	8-29-74	83.27
PATTERSON MEADOW	DWR Northern District	6-26-73	6-18-74	32.55
PEPPERDINES CAMP	DWR Northern District	6-26-73	6-19-74	29.41
SWEAGERT FLAT	DWR Northern District	6-25-73	6-18-74	33.47
SHASTA LAKE A2				
MT. SHASTA SLOPE	DWR Northern District	6-19-73	8-28-74	96.65
STOUTS MEADOW	DWR Northern District	6-20-73	8-28-74	158.93
SACRAMENTO VALLEY WESTSIDE A3				
ALDER SPRINGS	COE Sacramento District	8-23-73	8-22-74	53.00
BALL MOUNTAIN LOOKOUT	DWR Northern District	6-14-73	6-11-74	65.24
LOG SPRING	COE Sacramento District	8-22-73	8-22-74	45.80
NOEL SPRING	COE Sacramento District	8-23-73	8-22-74	57.70
SADDLE CAMP RANGER STATION	DWR Northern District	6-13-73	6-14-74	47.03
TROUGH SPRING	COE Sacramento District	8-24-73	8-23-74	66.80
SACRAMENTO VALLEY NORTHEAST A4				
DEER CREEK FLAT	DWR Northern District	6-11-73	--	Discontinued
DeWITT PEAK 2 WSW	DWR Northern District	6-11-73	6-12-74	38.85
HOGBACK ROAD	DWR Northern District	6-13-73	6-12-74	38.85
McCARTHY POINT	DWR Northern District	6-12-73	6-13-74	66.49
TWENTY MILE HOLLOW	DWR Northern District	6-12-73	6-13-74	43.56
FEATHER RIVER A5				
BOULDER CREEK GUARD STATION	DWR Central District	9-19-73	8-21-74	35.06
CAMEL PEAK	DWR Central District	9-17-73	8-19-74	113.60
CLARKS PEAK 1 NE	DWR Central District	9-19-73	8-21-74	30.25
CLOVER VALLEY	DWR Central District	9-20-73	8-22-74	25.53
GRANITE SPRING	DWR Central District	9-19-73	8-21-74	22.09
LIGHTS CREEK	DWR Central District	9-18-73	8-20-74	54.07
LITTLE LAST CHANCE VALLEY	DWR Central District	9-20-73	8-21-74	20.61
MT. HOUGH SNOWCOURSE	DWR Central District	9-18-73	8-20-74	68.84
ONION VALLEY	DWR Central District	9-17-73	8-19-74	99.38
SWAIN MOUNTAIN	DWR Central District	9-18-73	8-20-74	78.27
THREE MILE VALLEY	DWR Central District	9-20-73	8-22-74	50.84
AMERICAN RIVER A7				
BRUSHY SPRINGS GUARD STATION	Placer County Water Agency	10-16-73	8- 8-74	NR
FORNI RIDGE	DWR Snow Murveys	8-26-73	9-30-74	67.18
GERLE CREEK CAMP	Sacramento Muni. Utility District	9- 9-73	9-10-74	NR
ROBERTSON FLAT	Placer County Water Agency	10-16-73	7-26-74	101.11
THE CEDARS	DWR Central District	10- 5-73	9-16-74	84.20
WESTVILLE	Placer County Water Agency	10-16-73	7-26-74	93.4
WRIGHTS LAKE	Sacramento Muni. Utility District	9- 9-73	9-10-74	NR
SAN JOAQUIN RIVER BASIN				
COSUMNES RIVER B1				
LUMBERYARD	DWR Central District	10-30-73	10- 4-74	80.42
MOKELUMNE-CALAVERAS RIVERS B2				
HIGHLAND LAKES	DWR San Joaquin District	6-29-73	7-10-74	44.50
NORTH LAHONTAN AREA				
MADELINE PLAINS G2				
DODGE RESERVOIR 3 NNE	DWR Northern District	6-26-73	6-18-74	14.88
EAGLE LAKE G3				
CHAMPS FLAT	DWR Northern District	6-25-73	6-17-74	23.72
TRUCKEE RIVER G7				
BROCKWAY SUMMIT	COE Sacramento District	11- 7-73	11- 1-74	36.05

NR - No Record

## APPENDIX B

### SURFACE WATER MEASUREMENTS

This appendix contains surface water data for the 1974 water year, which is from October 1, 1973, to September 30, 1974. The data consists of unimpaired runoff; daily mean discharges; daily mean gage heights, maximum and minimum gage heights; elevations of daily tides; gaging station locations; diversion quantities; water imported to the report area; water exported from the report area; summary of water supply and utilization for the Sacramento-San Joaquin Delta; streamflow measurements at miscellaneous locations; corrections and revisions to previously published reports; and contents and inflow for major reservoirs.

Each station in this appendix has been assigned an identification number. The first two digits denote the hydrographic unit as shown below. The remaining digits further identify the station.

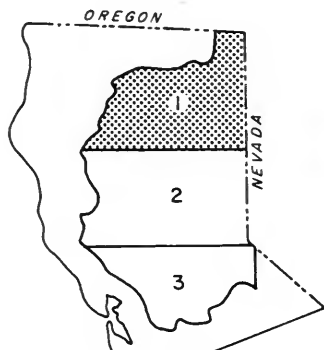
<u>Sacramento River Basin</u>	<u>San Joaquin River Basin</u>	<u>North Lahontan Area</u>
A0 Sacramento Valley Floor	B0 San Joaquin Valley Floor	G1 Surprise Valley
A1 Pit River	B1 Cosumnes River	G2 Madeline Plains
A2 Shasta Lake	B2 Mokelumne-Calaveras Rivers	G3 Eagle Lake
A3 Sacramento Valley Westside	B8 San Joaquin Valley Westside	G4 Susan River
A4 Sacramento Valley Northeast	B9 Sacramento-San Joaquin Delta	G5 Smoke River
A5 Feather River		G6 Herlong
A6 Yuba-Bear Rivers		G7 Truckee River
A7 American River	<u>San Francisco Bay Area</u>	G8 Carson River
A8 Cache Creek		G9 Walker River
A9 Putah Creek	E0 San Francisco Bay	

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract or through cooperative arrangements with other local or governmental agencies. The data published in the following reports together with this report present a comprehensive analysis of water resources for the area:

1. "Water Resources Data for California, Part 1: Surface Water Records, Volume 2: Northern Great Basin and Central Valley". U. S. Department of the Interior, Geological Survey.
2. "Annual Report of Operations, Central Valley Operations Office, Water and Power Control Division". U. S. Department of the Interior, Bureau of Reclamation.
3. Bulletin No. 120, "Water Conditions in California, Fall Issue". Department of Water Resources.
4. Bulletin No. 132, "The California State Water Project". Department of Water Resources.
5. Bulletin No. 157, "Index of Stream Gaging Stations in and Adjacent to California, 1970". Department of Water Resources. This index contains the period of record -- with number of years missing -- and more information for stations in the report area. The index also identifies the agency from which a particular record may be obtained.

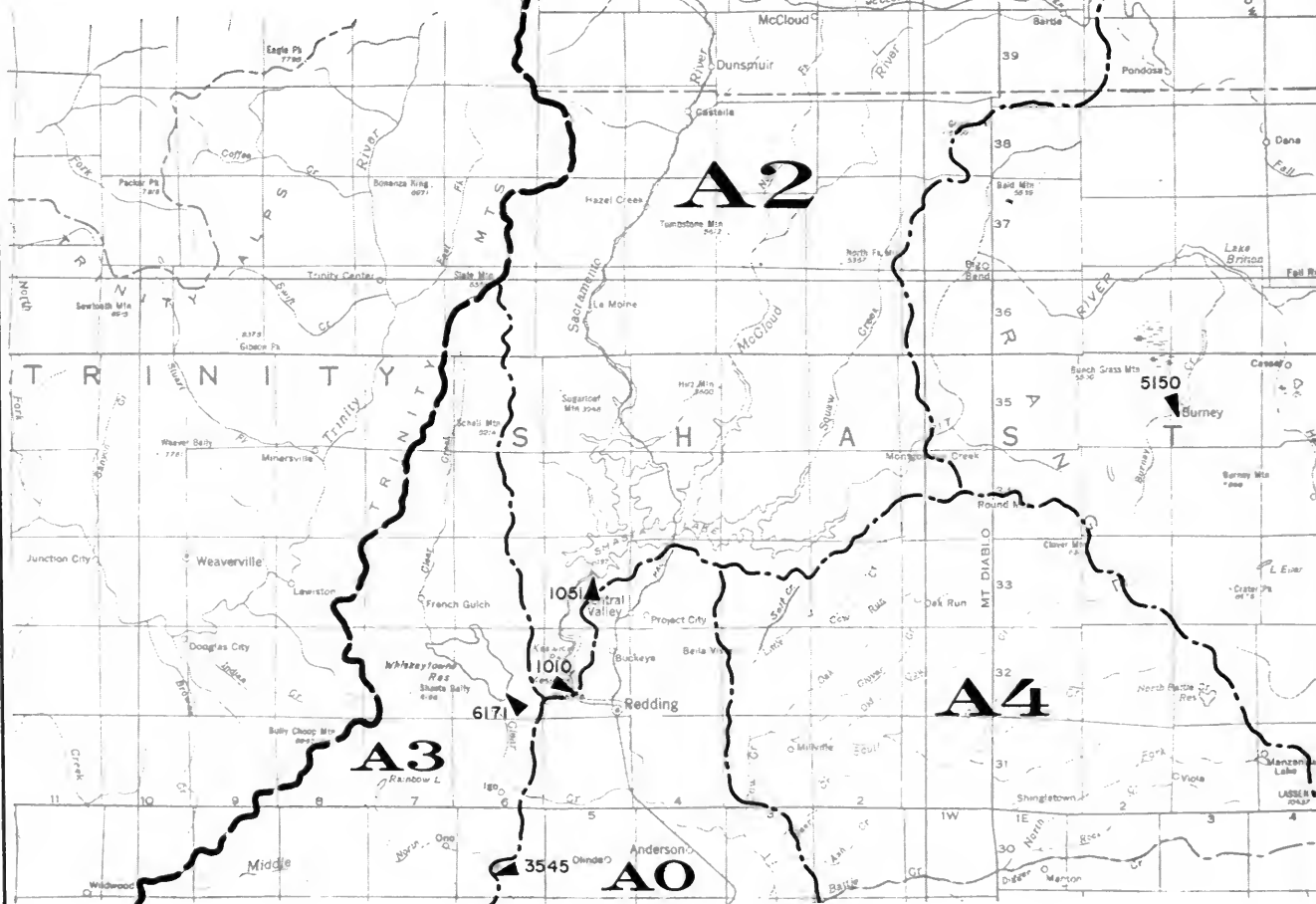
# LEGEND

- BOUNDARY OF AREA OF INVESTIGATION
- MAJOR DRAINAGE BOUNDARY
- HYDROGRAPHIC BOUNDARY AND FIRST TWO SYMBOLS OF STATION CODE NUMBER
- MEASUREMENT STATION AND LAST FOUR SYMBOLS OF THE STATION CODE NUMBER



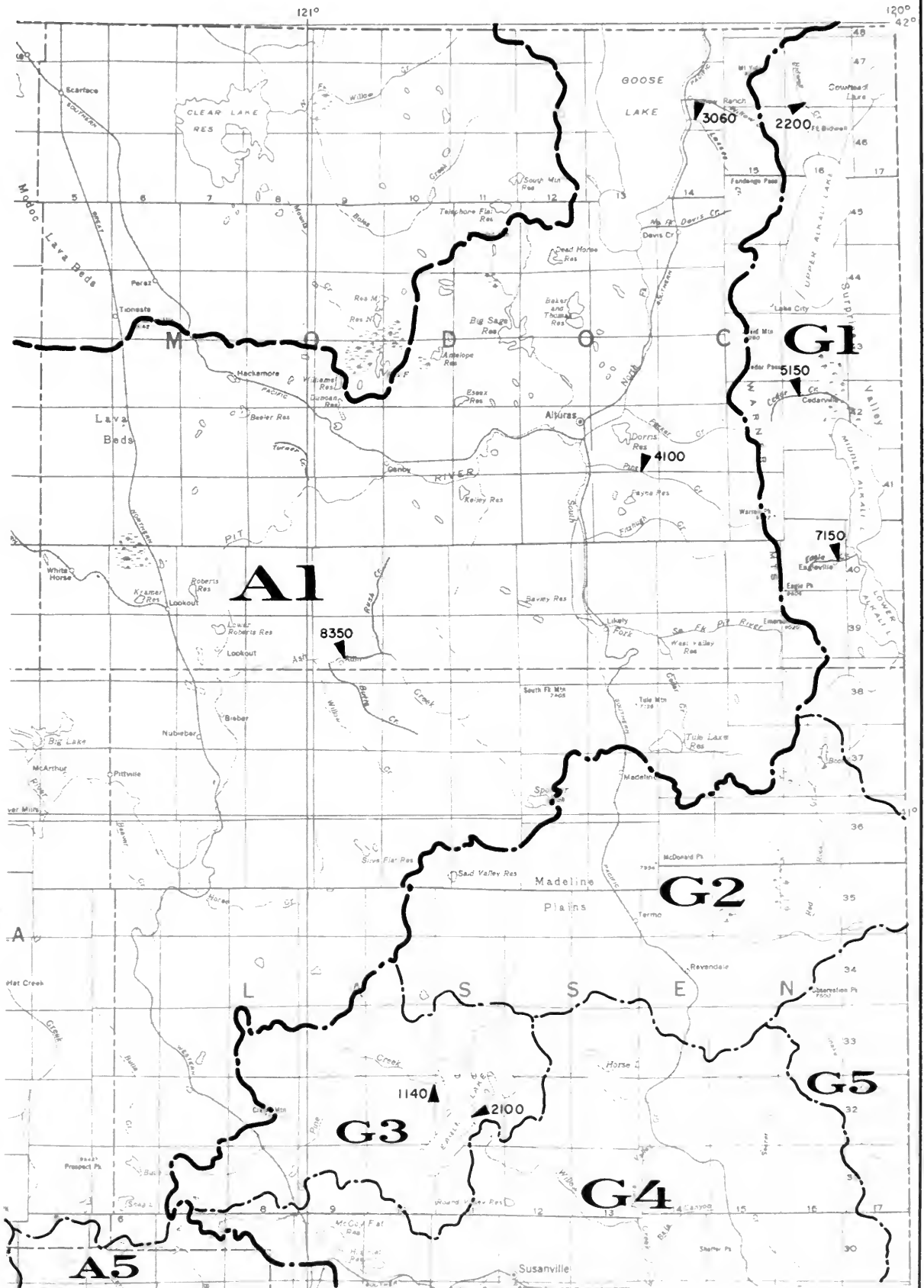
KEY TO SHEETS

SCALE OF MILES



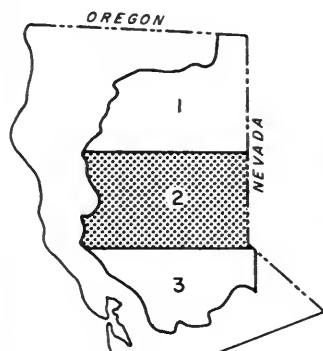
SURFACE WATER MEASUREMENT STATIONS 1973-74





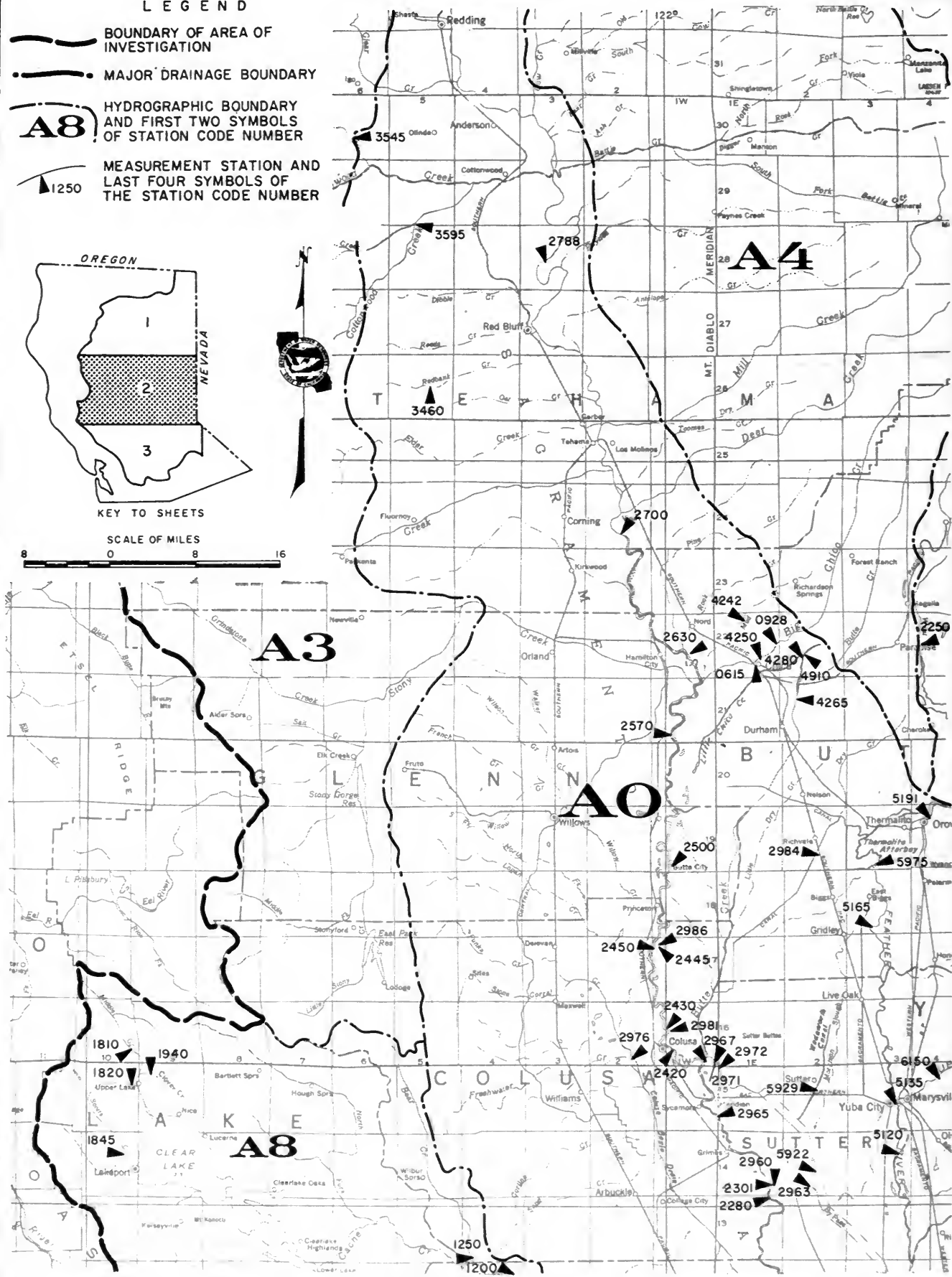
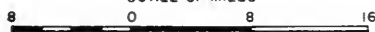
SURFACE WATER MEASUREMENT STATIONS 1973-74

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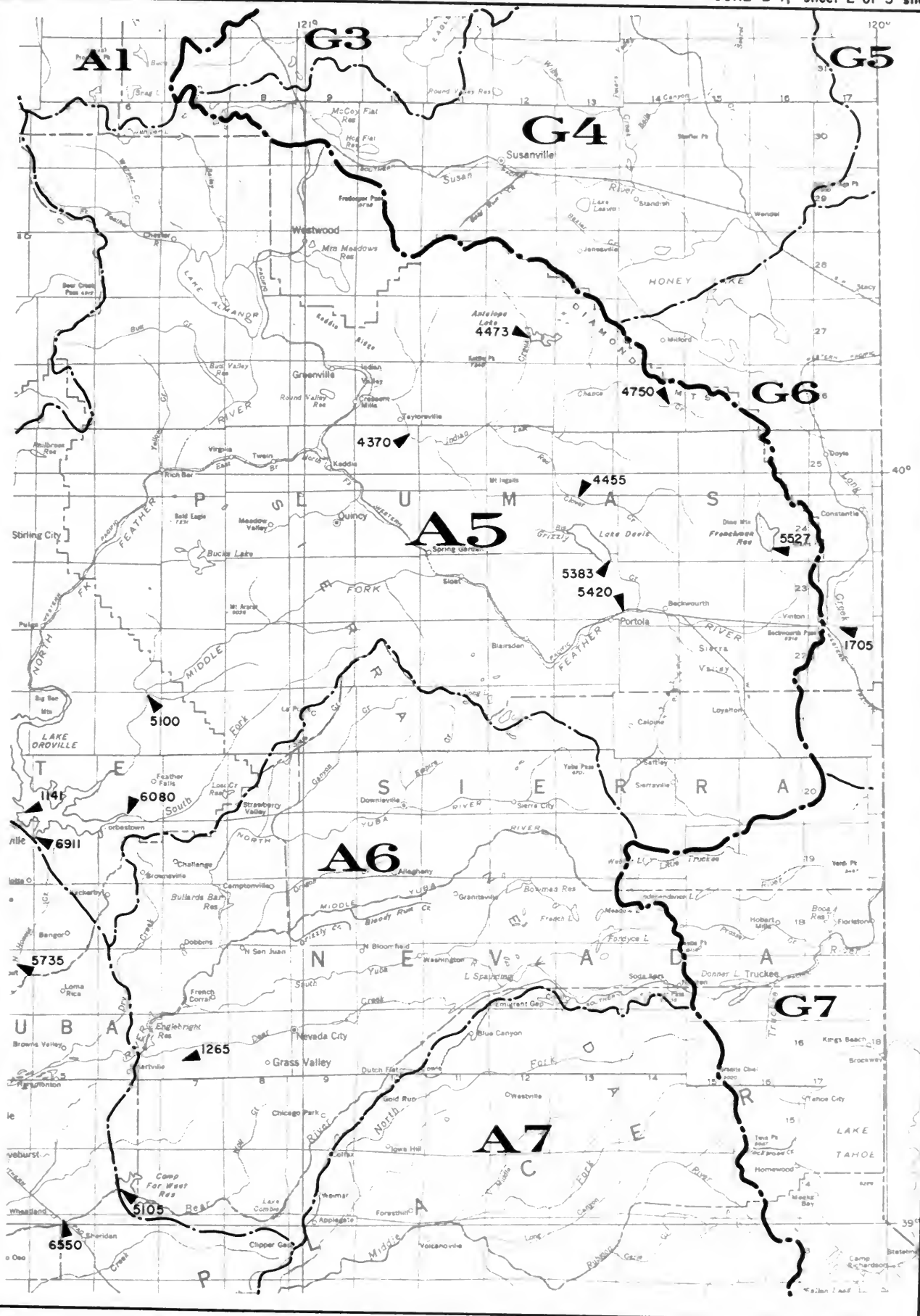
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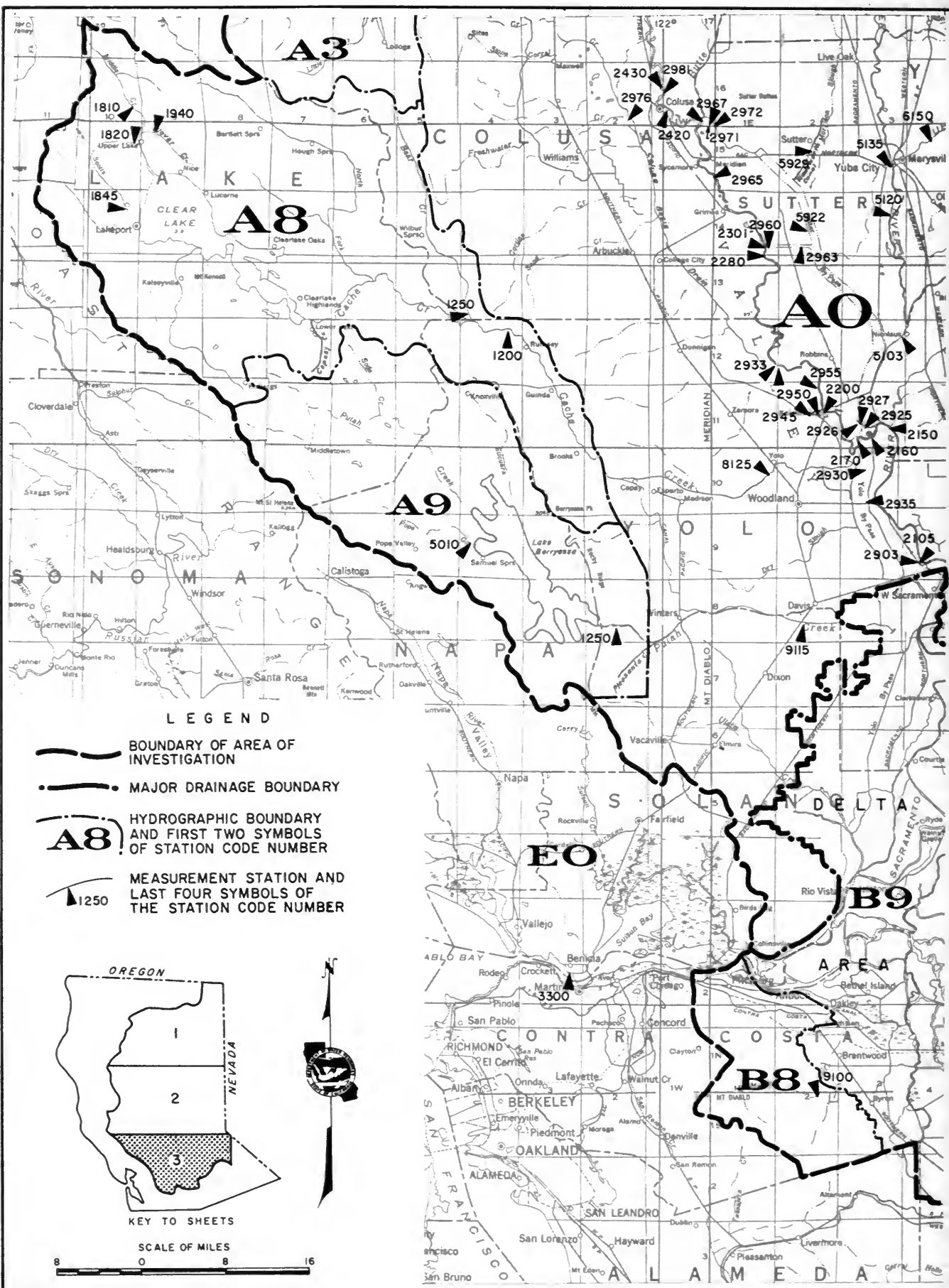


# SURFACE WATER MEASUREMENT STATIONS 1973-74



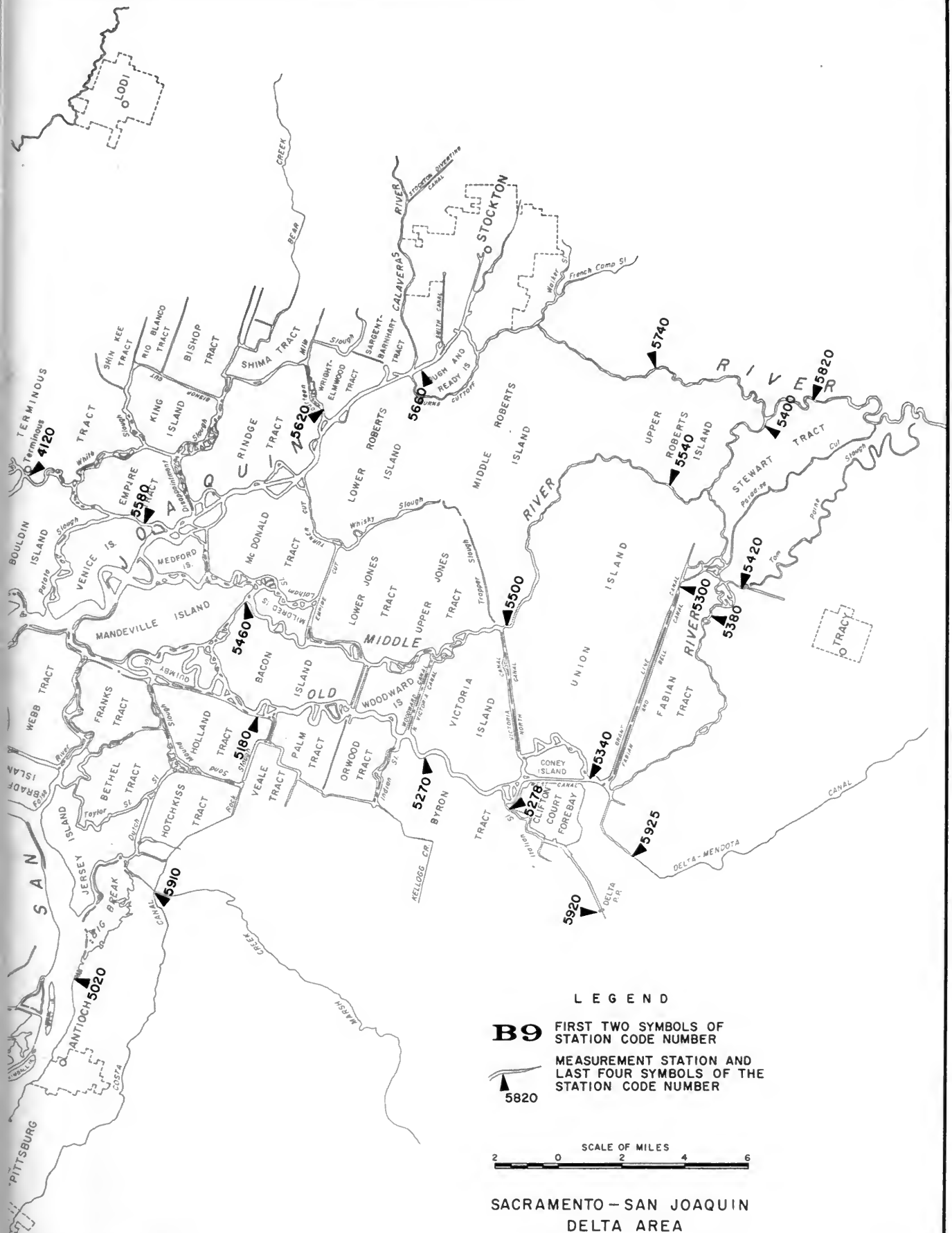


SURFACE WATER MEASUREMENT STATIONS 1973-74



25





SURFACE WATER MEASUREMENT STATIONS 1973-74

# ALPHABETICAL INDEX TO TABLES

	<u>Page</u>
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS . . . .	236
DAILY MEAN DISCHARGE . . . . .	41
DAILY MEAN GAGE HEIGHTS . . . . .	142
DAILY TIDES . . . . .	163
DELIVERIES	
From Folsom and Nimbus Reservoirs . . . . .	136
DELTA, SACRAMENTO-SAN JOAQUIN	
Summary of Monthly Water Supply and Utilization . . . . .	37
DIVERSIONS	
Feather River . . . . .	129
Mokelumne River . . . . .	133
Sacramento River . . . . .	130
Yuba River . . . . .	129
GAGING STATION ADDITIONS AND DISCONTINUATIONS . . . . .	235
EXPORTATIONS FROM NORTHEASTERN CALIFORNIA	
Deliveries from Mokelumne River . . . . .	136
Deliveries from Putah Creek . . . . .	136
Deliveries from Cache Slough . . . . .	136
Deliveries from Old River . . . . .	136
IMPORTATIONS INTO NORTHEASTERN CALIFORNIA	
Deliveries from Whiskeytown Lake via Judge Francis Carr Powerplant . . . . .	136
MAXIMUM AND MINIMUM GAGE HEIGHTS . . . . .	137
RESERVOIRS	
Contents of	
Antelope Lake near Boulder Creek Guard Station . . . . .	228
Camp Far West Reservoir near Sheridan . . . . .	230
Frenchman Lake near Chilcoot . . . . .	226
Lake Davis near Portola . . . . .	229
Inflow to	
Folsom Lake near Folsom . . . . .	234
Shasta Lake near Redding . . . . .	232
Whiskeytown Lake near Whiskeytown . . . . .	233
RUNOFF	
Annual in Percent of Average . . . . .	35
Monthly in Percent of Average . . . . .	36
STREAMFLOW MEASUREMENTS AT MISCELLANEOUS SITES . . . . .	39

ALPHABETICAL INDEX TO SURFACE  
WATER MEASUREMENT STATIONS

	Station Code Number	Streamflow and Station Description	Stage, Tide, Crests, and Station Description
		<u>Page</u>	<u>Page</u>
American River at Fair Oaks . . . . .	A07175 . . . . .	. . . . .	140
American River at Sacramento . . . . .	A07140 . . . . .	. . . . .	159
Ash Creek at Adin . . . . .	A18350 . . . . .	44 . . . . .	
Bear Creek near Lodi . . . . .	B02010 . . . . .	112 . . . . .	
Bear Creek near Rumsey . . . . .	A81250 . . . . .	98 . . . . .	
Bear River near Wheatland . . . . .	A06550 . . . . .	. . . . .	140
Bidwell Creek near Fort Bidwell . . . . .	G12200 . . . . .	123 . . . . .	
Big Chico Creek at Chico . . . . .	A04250 . . . . .	53 . . . . .	
Burney Creek near Burney . . . . .	A15150 . . . . .	45 . . . . .	
Butte Creek near Durham . . . . .	A04265 . . . . .	59 . . . . .	
Butte Slough at Mawson Bridge . . . . .	A02971 . . . . .	. . . . .	146-147
Butte Slough near Meridian . . . . .	A02972 . . . . .	71 . . . . .	140
Butte Slough at Outfall Gates . . . . .	A02967 . . . . .	62 . . . . .	
Cache Creek above Rumsey . . . . .	A81200 . . . . .	99 . . . . .	
Cache Creek at Yolo . . . . .	A08125 . . . . .	. . . . .	140
Calaveras River near Stockton . . . . .	B02520 . . . . .	108 . . . . .	
California Aqueduct at Delta Pumping Plant . . . . .	B95920 . . . . .	121 . . . . .	
Cedar Creek near Cedarville . . . . .	G15150 . . . . .	124 . . . . .	
Cherokee Canal near Richvale . . . . .	A02984 . . . . .	61 . . . . .	139
Clover Creek Bypass near Upper Lake . . . . .	A81940 . . . . .	97 . . . . .	
Colusa Basin Drain at Highway 20. . . . .	A02976 . . . . .	67 . . . . .	139
Colusa Basin Drain at Knights Landing . . . . .	A02945 . . . . .	68 . . . . .	139
Colusa Weir Spill to Butte Basin . . . . .	A02981 . . . . .	57 . . . . .	
Contra Costa Canal near Oakley . . . . .	B95910 . . . . .	120 . . . . .	
Cosumnes River at McConnell . . . . .	B01125 . . . . .	117 . . . . .	141
Cosumnes River at Michigan Bar . . . . .	B11150 . . . . .	. . . . .	141
Cottonwood Creek, North Fork, near Igo . . . . .	A03545 . . . . .	46 . . . . .	
Cottonwood Creek, South Fork, near Cottonwood . . . . .	A03595 . . . . .	47 . . . . .	
Deer Creek near Sloughhouse . . . . .	B01580 . . . . .	116 . . . . .	
Delta-Mendota Canal near Tracy . . . . .	B95925 . . . . .	119 . . . . .	
Dry Creek near Galt . . . . .	B01520 . . . . .	115 . . . . .	
Dry Creek at Roseville . . . . .	A00047 . . . . .	93 . . . . .	
Duck Creek near Stockton . . . . .	B02835 . . . . .	107 . . . . .	
Duck Creek Diversion near Farmington . . . . .	B02920 . . . . .	104 . . . . .	
Eagle Creek at Eagleville . . . . .	G17150 . . . . .	125 . . . . .	
Eagle Lake near Susanville . . . . .	G32100 . . . . .	. . . . .	162
Feather River near Gridley . . . . .	A05165 . . . . .	88 . . . . .	152
Feather River, Middle Fork, near Merrimac . . . . .	A55100 . . . . .	83 . . . . .	
Feather River, Middle Fork, near Portola . . . . .	A55420 . . . . .	78 . . . . .	
Feather River at Nicolaus . . . . .	A05103 . . . . .	. . . . .	155
Feather River at Oroville . . . . .	A05191 . . . . .	86 . . . . .	151
Feather River below Shanghai Bend . . . . .	A05120 . . . . .	91 . . . . .	154
Feather River, South Fork, at Ponderosa Dam . . . . .	A56080 . . . . .	84 . . . . .	
Feather River at Yuba City . . . . .	A05135 . . . . .	. . . . .	153
Feather River, West Branch, near Paradise . . . . .	A52250 . . . . .	82 . . . . .	
Fremont Weir Spill to Yolo Bypass . . . . .	A02930 . . . . .	70 . . . . .	
French Camp Slough near French Camp . . . . .	B02805 . . . . .	106 . . . . .	
Georgiana Slough at Mokelumne River . . . . .	B94100 . . . . .	. . . . .	216
Grantline Canal at Tracy Road Bridge . . . . .	B95300 . . . . .	. . . . .	204
Indian Creek near Taylorsville . . . . .	A54370 . . . . .	81 . . . . .	
Italian Slough near Mouth . . . . .	B95278 . . . . .	. . . . .	202
Lassen Creek near Willow Ranch . . . . .	A13060 . . . . .	42 . . . . .	
Last Chance Creek at Dixie Refuge Damsite . . . . .	A54750 . . . . .	80 . . . . .	
Lindo Channel near Chico . . . . .	A00615 . . . . .	54 . . . . .	
Little Chico Creek near Chico . . . . .	A04280 . . . . .	60 . . . . .	
Little Chico Creek Diversion near Chico . . . . .	A04910 . . . . .	58 . . . . .	
Littlejohn Creek at Farmington . . . . .	B02870 . . . . .	105 . . . . .	
Little Potato Slough at Terminus . . . . .	B94120 . . . . .	. . . . .	214
Long Valley Creek near Hallelujah Junction . . . . .	G61705 . . . . .	127 . . . . .	
Marsh Creek near Byron . . . . .	B89100 . . . . .	122 . . . . .	
Middle Creek near Upper Lake . . . . .	A81810 . . . . .	95 . . . . .	
Middle River at Bacon Island . . . . .	B95460 . . . . .	. . . . .	194
Middle River at Borden Highway . . . . .	B95500 . . . . .	. . . . .	192
Middle River at Mowry Bridge . . . . .	B95540 . . . . .	. . . . .	190
Mokelumne River at Woodbridge . . . . .	B02105 . . . . .	113 . . . . .	141
Mokelumne River near Thornton . . . . .	B94175 . . . . .	. . . . .	210
Mokelumne River, South Fork, at New Hope Bridge . . . . .	B94150 . . . . .	. . . . .	212
Mormon Slough at Bellota . . . . .	B02560 . . . . .	109 . . . . .	
Morrison Creek near Sacramento . . . . .	A00020 . . . . .	118 . . . . .	
Mosher Slough near Stockton . . . . .	B02007 . . . . .	111 . . . . .	



ALPHABETICAL INDEX TO SURFACE  
WATER MEASUREMENT STATIONS  
(Continued)

	Station Code Number	Streamflow and Station Description	Stage, Tide, Creata, and Station Description
		<u>Page</u>	<u>Page</u>
Moulton Weir Spill to Butte Basin . . . . .	A02986 . . . . .	56 . . . . .	
Mud Creek near Chico . . . . .	A04242 . . . . .	51 . . . . .	
Mud Creek Diversion at Chico . . . . .	A00928 . . . . .	52 . . . . .	
North Honcut Creek near Bangor . . . . .	A05735 . . . . .	89 . . . . .	
Old River near Byron . . . . .	B95270 . . . . .		206
Old River at Clifton Court Ferry . . . . .	B95340 . . . . .		200
Old River at Head . . . . .	B95400 . . . . .		180
Old River near Rock Slough . . . . .	B95180 . . . . .		208
Old River near Tracy Road Bridge . . . . .	B95380 . . . . .		196
Palermo Canal at Oroville Dam . . . . .	A56911 . . . . .	85 . . . . .	
Pine Creek near Alturas . . . . .	A14100 . . . . .	43 . . . . .	
Pine Creek at Eagle Lake near Susanville . . . . .	G31140 . . . . .	126 . . . . .	
Pope Creek near Pope Valley . . . . .	A95010 . . . . .	100 . . . . .	
Putah Creek near Winters . . . . .	A91250 . . . . .		141
Putah Creek, South Fork, near Davis . . . . .	A09115 . . . . .	101 . . . . .	
Reclamation District 70 Drainage to Sacramento River . . . . .	A02965 . . . . .	63 . . . . .	
Reclamation District 108 Drainage to Sacramento River . . . . .	A02933 . . . . .	65 . . . . .	
Reclamation District 787 Drainage to Colusa Basin Drain . . . . .	A02950 . . . . .	69 . . . . .	
Reclamation District 787 Drainage to Sacramento River . . . . .	A02955 . . . . .	66 . . . . .	
Reclamation District 1500 Drainage to Sacramento Slough . . . . .	A02926 . . . . .	76 . . . . .	
Reclamation District 1660 Drainage to Sutter Bypass . . . . .	A05922 . . . . .	74 . . . . .	
Reclamation District 1660 Drainage to Tisdale Bypass . . . . .	A02963 . . . . .	75 . . . . .	
Red Bank Creek near Red Bluff . . . . .	A03460 . . . . .	48 . . . . .	
Red Clover Creek above Abbey Bridge Damsite . . . . .	A54455 . . . . .	79 . . . . .	
Sacramento River above Bend Bridge near Red Bluff . . . . .	A02788 . . . . .		138
Sacramento River at Butte City . . . . .	A02500 . . . . .		138
Sacramento River at Collinsville . . . . .	B91110 . . . . .		176
Sacramento River at Colusa . . . . .	A02420 . . . . .		139
Sacramento River at Colusa Weir . . . . .	A02430 . . . . .		144
Sacramento River near Freeport . . . . .	B91850 . . . . .		164
Sacramento River at Fremont Weir, East End . . . . .	A02160 . . . . .		150
Sacramento River at Fremont Weir, West End . . . . .	A02170 . . . . .		149
Sacramento River at Hamilton City . . . . .	A02630 . . . . .	50 . . . . .	138
Sacramento River at Keswick . . . . .	A21010 . . . . .		138
Sacramento River at Knights Landing . . . . .	A02200 . . . . .		139
Sacramento River at Moulton Weir . . . . .	A02445 . . . . .		142
Sacramento River opposite Moulton Weir . . . . .	A02450 . . . . .		143
Sacramento River at Ord Ferry . . . . .	A02570 . . . . .	55 . . . . .	138
Sacramento River at Rio Vista . . . . .	B91210 . . . . .		172
Sacramento River at Sacramento . . . . .	A02100 . . . . .	94 . . . . .	158
Sacramento River at Sacramento Weir . . . . .	A02105 . . . . .		157
Sacramento River at Snodgrass Slough . . . . .	B91750 . . . . .		166
Sacramento River at Tisdale Weir . . . . .	A02301 . . . . .		145
Sacramento River at Verona . . . . .	A02150 . . . . .		156
Sacramento River at Vina Bridge . . . . .	A02700 . . . . .	49 . . . . .	138
Sacramento River at Walnut Grove . . . . .	B91650 . . . . .		168
Sacramento River below Wilkins Slough . . . . .	A02280 . . . . .		139
Sacramento Slough at Sacramento River . . . . .	A02925 . . . . .	77 . . . . .	
Sacramento Weir Spill to Yolo Bypass . . . . .	A02903 . . . . .	92 . . . . .	
San Joaquin River at Antioch . . . . .	B95020 . . . . .		222
San Joaquin River at Brandt Bridge . . . . .	B95740 . . . . .		182
San Joaquin River at Mossdale Bridge . . . . .	B95820 . . . . .		178
San Joaquin River at Rindge Pump . . . . .	B95620 . . . . .		186
San Joaquin River at San Andreas Landing . . . . .	B95100 . . . . .		218
San Joaquin River at Venice Island . . . . .	B95580 . . . . .		188
San Joaquin River near Vernalis . . . . .	B07020 . . . . .	103 . . . . .	161
Scotts Creek at Eickhoff Road near Lakeport . . . . .	A81845 . . . . .	96 . . . . .	
Scotts Creek at Upper Lake . . . . .	A81820 . . . . .		160
Squirrel Creek near Penn Valley . . . . .	A61265 . . . . .	90 . . . . .	
Stockton Diverting Canal at Stockton . . . . .	B02580 . . . . .	110 . . . . .	
Stockton Ship Channel at Burna Cutoff . . . . .	B95660 . . . . .		184
Suisun Bay at Benicia . . . . .	E03300 . . . . .		224
Sutter Bypass at Reclamation District 1500 Pumping Plant . . . . .	A02927 . . . . .		148
Sutter Creek near Sutter Creek . . . . .	B21160 . . . . .	114 . . . . .	
Thermalito Afterbay Release to Feather River near Oroville . . . . .	A05975 . . . . .	87 . . . . .	
Threemile Slough at Sacramento River . . . . .	B91160 . . . . .		174
Threemile Slough at San Joaquin River . . . . .	B95060 . . . . .		220
Tisdale Weir Spill to Sutter Bypass . . . . .	A02960 . . . . .	64 . . . . .	
Tom Paine Slough above Mouth . . . . .	B95420 . . . . .		198
Wadsworth Canal near Sutter . . . . .	A05929 . . . . .	72-73 . . . . .	140
Yolo Bypass near Lisbon . . . . .	B91560 . . . . .		170
Yolo Bypass near Woodland . . . . .	A02935 . . . . .	102 . . . . .	141
Yuba River near Marysville . . . . .	A06150 . . . . .		140



HYDROGRAPHIC AREA CODE NUMBER INDEX TO  
SURFACE WATER MEASUREMENT STATIONS

HYDROGRAPHIC AREA CODE NUMBER INDEX TO SURFACE WATER MEASUREMENT STATIONS		Streamflow and Station Description	Daily Stage, Major Crests, Reservoirs, and Station Description
Station Code Number		<u>Page</u>	<u>Page</u>
HYDROGRAPHIC AREA A			
<u>Sacramento Valley Floor</u>			
A00020	Morrison Creek near Sacramento . . . . .	118	-
0047	Dry Creek at Roseville . . . . .	93	-
0615	Lindo Channel near Chico . . . . .	54	-
0928	Mud Creek Diversion at Chico . . . . .	52	-
2100	Sacramento River at Sacramento . . . . .	94	158
A02105	Sacramento River at Sacramento Weir . . . . .	-	157
2150	Sacramento River at Verona . . . . .	-	156
2160	Sacramento River at Fremont Weir, East End . . . . .	-	150
2170	Sacramento River at Fremont Weir, West End . . . . .	-	149
2200	Sacramento River at Knights Landing . . . . .	-	139
A02280	Sacramento River below Wilkins Slough . . . . .	-	139
2301	Sacramento River at Tisdale Weir . . . . .	-	145
2420	Sacramento River at Colusa . . . . .	-	139
2430	Sacramento River at Colusa Weir . . . . .	-	144
2445	Sacramento River at Moulton Weir . . . . .	-	142
A02450	Sacramento River opposite Moulton Weir . . . . .	-	143
2500	Sacramento River at Butte City . . . . .	-	138
2570	Sacramento River at Ord Ferry . . . . .	55	138
2630	Sacramento River at Hamilton City . . . . .	50	138
2700	Sacramento River at Vina Bridge . . . . .	49	138
A02788	Sacramento River above Bend Bridge near Red Bluff . . . . .	-	138
2903	Sacramento Weir Spill to Yolo Bypass . . . . .	92	-
2925	Sacramento Slough at Sacramento River . . . . .	77	-
2926	Reclamation District 1500 Drainage to Sacramento Slough . . . . .	76	-
2927	Sutter Bypass at Reclamation District 1500 Pumping Plant . . . . .	-	148
A02930	Fremont Weir Spill to Yolo Bypass . . . . .	70	-
2933	Reclamation District 108 Drainage to Sacramento River . . . . .	65	-
2935	Yolo Bypass near Woodland . . . . .	102	141
2945	Colusa Basin Drain at Knights Landing . . . . .	68	139
2950	Reclamation District 787 Drainage to Colusa Basin Drain . . . . .	69	-
A02955	Reclamation District 787 Drainage to Sacramento River . . . . .	66	-
2960	Tisdale Weir Spill to Sutter Bypass . . . . .	64	-
2963	Reclamation District 1660 Drainage to Tisdale Bypass . . . . .	75	-
2965	Reclamation District 70 Drainage to Sacramento River . . . . .	63	-
2967	Butte Slough at Outfall Gates . . . . .	62	-
A02971	Butte Slough at Mawson Bridge . . . . .	-	146-147
2972	Butte Slough near Meridian . . . . .	71	140
2976	Colusa Basin Drain at Highway 20 . . . . .	67	139
2981	Colusa Weir Spill to Butte Basin . . . . .	57	-
2984	Cherokee Canal near Richvale . . . . .	61	139
A02986	Moulton Weir Spill to Butte Basin . . . . .	56	-
3460	Red Bank Creek near Red Bluff . . . . .	48	-
3545	Cottonwood Creek, North Fork, near Igo . . . . .	46	-
3595	Cottonwood Creek, South Fork, near Cottonwood . . . . .	47	-
4242	Mud Creek near Chico . . . . .	51	-
A04250	Big Chico Creek at Chico . . . . .	53	-
4265	Butte Creek near Durham . . . . .	59	-
4280	Little Chico Creek near Chico . . . . .	60	-
4910	Little Chico Creek Diversion near Chico . . . . .	58	-
5103	Feather River at Nicolaus . . . . .	-	155
A05120	Feather River below Shanghai Bend . . . . .	91	154
5135	Feather River at Yuba City . . . . .	-	153
5165	Feather River near Gridley . . . . .	88	152
5191	Feather River at Oroville . . . . .	86	151
5735	North Honcut Creek near Bangor . . . . .	89	-
A05922	Reclamation District 1660 Drainage to Sutter Bypass . . . . .	74	-
5929	Wadsworth Canal near Sutter . . . . .	72-73	140
5975	Thermalito Afterbay Release to Feather River near Oroville . . . . .	87	-
6150	Yuba River near Marysville . . . . .	-	140
6550	Bear River near Wheatland . . . . .	-	140
A07140	American River at Sacramento . . . . .	-	159
7175	American River at Fair Oaks . . . . .	-	140
8125	Cache Creek at Yolo . . . . .	-	140
9115	Putah Creek, South Fork, near Davis . . . . .	101	-

HYDROGRAPHIC AREA CODE NUMBER INDEX TO  
SURFACE WATER MEASUREMENT STATIONS  
(Continued)

Station Code Number		Streamflow and Station Description	Page	Daily Stage, Major Crests, Reservoirs and Station Description	Page
HYDROGRAPHIC AREA A (Continued)					
<u>Pit River</u>					
A13060	Lassen Creek near Willow Ranch . . . . .	42	-	-	-
4100	Pine Creek near Alturas . . . . .	43	-	-	-
5150	Burney Creek near Burney . . . . .	45	-	-	-
8350	Ash Creek at Adin . . . . .	44	-	-	-
<u>Shasta Lake</u>					
A21010	Sacramento River at Keswick . . . . .	-	138	-	-
1051	Inflow to Shasta Lake . . . . .	-	232	-	-
<u>Sacramento Valley Westside</u>					
A36171	Inflow to Whiskeytown Lake . . . . .	-	233	-	-
<u>Feather River</u>					
A51141	Lake Oroville near Oroville . . . . .	-	229	-	-
2250	Feather River, West Branch, near Paradise . . . . .	82	-	-	-
4370	Indian Creek near Taylorsville . . . . .	81	-	-	-
4455	Red Clover Creek above Abbey Bridge Damsite . . . . .	79	-	-	-
4473	Antelope Lake near Boulder Creek Guard Station . . . . .	-	228	-	-
A54750	Last Chance Creek at Dixie Refuge Damsite . . . . .	80	-	-	-
5100	Feather River, Middle Fork, near Merrimac . . . . .	83	-	-	-
5383	Lake Davis near Portola . . . . .	-	227	-	-
5420	Feather River, Middle Fork, near Portola . . . . .	78	-	-	-
5527	Frenchman Lake near Chilcoat . . . . .	-	226	-	-
A56080	Feather River, South Fork, at Ponderosa Dam . . . . .	84	-	-	-
6911	Palermo Canal at Oroville Dam . . . . .	85	-	-	-
<u>Yuba-Bear Rivers</u>					
A61265	Squirrel Creek near Penn Valley . . . . .	90	-	-	-
5105	Camp Far West Reservoir near Sheridan . . . . .	-	230	-	-
<u>American River</u>					
A71120	Inflow to Folsom Lake . . . . .	-	234	-	-
<u>Cache Creek</u>					
A81200	Cache Creek above Rumsey . . . . .	99	-	-	-
1250	Bear Creek near Rumsey . . . . .	98	-	-	-
1810	Middle Creek near Upper Lake . . . . .	95	-	-	-
1820	Scotts Creek at Upper Lake . . . . .	-	160	-	-
1845	Scotts Creek at Eickhoff Road near Lakeport . . . . .	96	-	-	-
1940	Clover Creek Bypass near Upper Lake . . . . .	97	-	-	-
<u>Putah Creek</u>					
A91250	Putah Creek near Winters . . . . .	-	141	-	-
5010	Pope Creek near Pope Valley . . . . .	100	-	-	-
HYDROGRAPHIC AREA B					
<u>San Joaquin Valley Floor</u>					
B01125	Cosumnes River at McConnell . . . . .	117	141	-	-
1520	Dry Creek near Galt . . . . .	115	-	-	-
1580	Deer Creek near Sloughhouse . . . . .	116	-	-	-
2007	Mosher Slough near Stockton . . . . .	111	-	-	-
2010	Bear Creek near Lodi . . . . .	112	-	-	-
B02105	Mokelumne River at Woodbridge . . . . .	113	141	-	-
2520	Calaveras River near Stockton . . . . .	108	-	-	-
2560	Mormon Slough at Bellota . . . . .	109	-	-	-
2580	Stockton Diverting Canal at Stockton . . . . .	110	-	-	-
2805	French Camp Slough near French Camp . . . . .	106	-	-	-
B02835	Duck Creek near Stockton . . . . .	107	-	-	-
2870	Littlejohn Creek at Farmington . . . . .	105	-	-	-
2920	Duck Creek Diversion near Farmington . . . . .	104	-	-	-
7020	San Joaquin River near Vernalis . . . . .	103	161	-	-

HYDROGRAPHIC AREA CODE NUMBER INDEX TO  
SURFACE WATER MEASUREMENT STATIONS  
(Continued)

Station Code Number	Streamflow and Station Description	Page	Daily Stage, Major Crests, Reservoirs, and Station Description
HYDROGRAPHIC AREA B (Continued)			
<u>Cosumnes River</u>			
B11150	Cosumnes River at Michigan Bar . . . . .	-	141
<u>Mokelumne-Calaveras Rivers</u>			
B21160	Sutter Creek near Sutter Creek . . . . .	114	-
<u>San Joaquin Valley Westside</u>			
B89100	Marsh Creek near Byron . . . . .	122	-
<u>Sacramento-San Joaquin Delta</u>			
B91110	Sacramento River at Collinsville . . . . .	-	176
1160	Threemile Slough at Sacramento River . . . . .	-	174
1210	Sacramento River at Rio Vista . . . . .	-	172
1560	Yolo Bypass near Lisbon . . . . .	-	170
1650	Sacramento River at Walnut Grove . . . . .	-	168
B91750	Sacramento River at Snodgrass Slough . . . . .	-	166
1850	Sacramento River near Freeport . . . . .	-	164
4100	Georgiana Slough at Mokelumne River . . . . .	-	216
4120	Little Potato Slough at Terminous . . . . .	-	214
4150	Mokelumne River, South Fork, at New Hope Bridge . . . . .	-	212
B94175	Mokelumne River near Thornton . . . . .	-	210
5020	San Joaquin River at Antioch . . . . .	-	222
5060	Threemile Slough at San Joaquin River . . . . .	-	220
5100	San Joaquin River at San Andreas Landing . . . . .	-	218
5180	Old River near Rock Slough . . . . .	-	208
B95270	Old River near Byron . . . . .	-	206
5278	Italian Slough near Mouth . . . . .	-	202
5300	Grantline Canal at Tracy Road Bridge . . . . .	-	204
5340	Old River at Clifton Court Ferry . . . . .	-	200
5380	Old River near Tracy Road Bridge . . . . .	-	196
B95400	Old River at Head . . . . .	-	180
5420	Tom Paine Slough above Mouth . . . . .	-	198
5460	Middle River at Bacon Island . . . . .	-	194
5500	Middle River at Borden Highway . . . . .	-	192
5540	Middle River at Mowry Bridge . . . . .	-	190
B95580	San Joaquin River at Venice Island . . . . .	-	188
5620	San Joaquin River at Rindge Pump . . . . .	-	186
5660	Stockton Ship Channel at Burns Cutoff . . . . .	-	184
5740	San Joaquin River at Brandt Bridge . . . . .	-	182
5820	San Joaquin River at Mossdale Bridge . . . . .	-	178
B95910	Contra Costa Canal near Oakley . . . . .	120	-
5920	California Aqueduct at Delta Pumping Plant . . . . .	121	-
5925	Delta-Mendota Canal near Tracy . . . . .	119	-
HYDROGRAPHIC AREA E			
<u>San Francisco Bay</u>			
E03300	Suisun Bay at Benicia . . . . .	-	224
HYDROGRAPHIC AREA G			
<u>Surprise Valley</u>			
G12200	Bidwell Creek near Fort Bidwell . . . . .	123	-
5150	Cedar Creek near Cedarville . . . . .	124	-
7150	Eagle Creek at Eagleville . . . . .	125	-
<u>Eagle Lake</u>			
G31140	Pine Creek at Eagle Lake near Susanville . . . . .	126	-
2100	Eagle Lake near Susanville . . . . .	-	162
<u>Herlong</u>			
G61705	Long Valley Creek near Hallelujah Junction . . . . .	127	-

## TABLES B-1 AND B-2

### UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there are: (1) no upstream controls such as dams or reservoirs; (2) no diversions or unnatural accretions; and (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement point.

TABLE B-1  
ANNUAL UNIMPAIRED RUNOFF  
In Percent of Average

	Sacramento and San Joaquin Rivers to Delta (a)	Sacramento River near Red Bluff	Sacramento River at Sacramento (a)	Feather River near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River near Mokelumne Hill	San Joaquin River near Vernalis (a)
Average Annual Runoff (b)	23,809	7,948	17,082	4,287	2,274	2,573	705	5,455
1932-33	54	58	52	47	47	49	60	62
1933-34	48	57	51	47	43	44	42	42
1934-35	101	94	97	100	99	100	100	118
1935-36	106	89	102	100	114	132	127	119
1936-37	88	75	78	74	82	90	99	120
1937-38	189	185	186	201	177	175	176	206
1938-39	48	55	48	43	40	41	48	53
1939-40	128	132	131	132	126	132	122	121
1940-41	152	180	159	151	138	122	119	145
1941-42	143	142	148	155	150	152	140	135
1942-43	126	107	124	131	138	151	143	135
1943-44	63	59	61	67	61	57	63	72
1944-45	82	84	88	87	93	98	110	121
1945-46	102	101	102	98	106	111	106	105
1946-47	60	64	61	59	60	55	56	63
1947-48	88	96	92	90	88	87	90	77
1948-49	69	76	70	61	65	72	73	70
1949-50	85	72	85	90	98	104	107	85
1950-51	135	114	134	133	156	180	165	133
1951-52	168	145	167	186	181	193	188	171
1952-53	107	122	118	122	112	103	97	80
1953-54	94	117	102	99	84	78	75	79
1954-55	64	71	64	58	57	61	62	64
1955-56	174	167	175	186	174	181	177	179
1956-57	84	90	87	85	86	83	85	79
1957-58	167	190	174	163	155	159	151	153
1958-59	65	85	71	67	54	48	53	53
1959-60	70	81	76	75	75	65	59	54
1960-61	61	90	70	62	50	41	40	38
1961-62	91	94	88	85	85	80	91	103
1962-63	128	125	135	146	144	138	124	114
1963-64	62	66	64	60	65	63	61	58
1964-65	150	130	150	162	171	174	170	148
1965-66	74	92	76	67	63	54	65	73
1966-67	150	132	141	147	145	154	162	183
1967-68	72	87	80	81	69	66	58	54
1968-69	173	148	157	165	161	166	189	225
1969-70	130	147	140	142	128	123	126	103
1970-71	121	136	133	144	126	116	111	89
1971-72	74	83	79	75	75	73	73	65
1972-73	117	121	118	113	117	117	111	118
1973-74 (c)	172	200	189	190	172	165	143	130

(a) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

(b) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(c) Preliminary data subject to revision.

TABLE B-2  
MONTHLY UNIMPAIRED RUNOFF

In Percent of Average

		Sacramento and San Joaquin Rivers to Delta (a)	Sacramento River near Red Bluff	Sacramento River at Sacramento (a)	Feather River near Oroville	Yuba River at Smartville	American River at Fair Oaks	Mokelumne River near Mokelumne Hill	San Joaquin River near Vernalis (a)
October 1973	Percent	107	129	107	45	129	91	133	105
	Average	512	292	460	107	35	25	5	46
November 1973	Percent	507	497	547	609	685	548	508	351
	Average	918	425	753	170	81	76	17	118
December 1973	Percent	196	220	209	188	196	213	180	147
	Average	1,983	837	1,618	380	202	199	39	253
January 1974	Percent	278	304	301	321	287	272	238	192
	Average	2,542	1,106	2,082	464	247	265	45	300
February 1974	Percent	75	83	78	82	63	67	67	55
	Average	2,907	1,275	2,416	541	287	313	56	400
March 1974	Percent	216	236	237	271	210	208	169	157
	Average	3,017	1,093	2,313	575	296	348	72	501
April 1974	Percent	144	187	158	157	120	130	110	112
	Average	3,664	1,006	2,568	720	383	459	127	864
May 1974	Percent	129	133	129	133	127	121	128	130
	Average	3,940	684	2,286	658	425	519	195	1,409
June 1974	Percent	129	136	133	143	129	119	122	125
	Average	2,467	435	1,262	331	219	278	121	1,069
July 1974	Percent	140	158	163	137	199	219	163	104
	Average	971	297	570	153	54	65	22	370
August 1974	Percent	132	154	133	106	0	177	150	130
	Average	489	251	394	102	24	16	4	89
September 1974	Percent	122	144	125	91	105	0	45	95
	Average	400	247	361	85	20	10	2	36
1973-74 Water Year	Percent	172	200	189	190	172	165	143	130
	Average	23,809	7,948	17,082	4,287	2,274	2,573	705	5,455

The percent values are preliminary, subject to revision.

Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(a) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only, and do not include runoff from minor tributaries and from the valley floor.

TABLE B-3

SUMMARY OF WATER SUPPLY AND UTILIZATION  
SACRAMENTO-SAN JOAQUIN DELTA

This table presents in thousands of acre-feet the correlation of water supply and use for the Sacramento-San Joaquin Delta Service Area.

The Delta Service Area is a natural hydrographic subdivision which is comprised of two subareas. One is the Delta Lowlands which are those lands within a boundary located approximately at the 5-foot contour; the Delta Uplands are those lands outside the Delta Lowlands boundary which are served by water from the lowland channels.

The water supply available to the Delta Service Area is the sum of the measured inflow and the precipitation. The measured inflow is determined from 14 gaging stations listed in the table. The precipitation is determined by the Thiessen Balance Method for stations located at Davis, Galt, Rio Vista, Lodi, Brentwood, Stockton, and Tracy S. P. "Water Utilization" in the same table includes agricultural use, evaporation, exports through the California Aqueduct, Delta-Mendota and Contra Costa Canals, and diversion for the City of Vallejo. Agricultural use in the uplands is the average measured diversions for the 10-year period October 1960 through September 1970. Agricultural use in the lowlands is computed by unit values of consumptive use of the various crops, multiplied by the acreages. Unit values of consumptive use were derived from experimental work by the University of California and California Extension Service as reported in Bulletin No. 27, "Variations and Control of Salinity in Sacramento-San Joaquin Delta and Upper San Francisco Bays". Crop acreage values used in this table were determined from a survey made in 1960 and 1961.

TABLE B-3  
SUMMARY OF MONTHLY WATER SUPPLY AND UTILIZATION  
SACRAMENTO-SAN JOAQUIN DELTA  
(In Thousands of Acre-Feet)

Item	Record on Page No.	1973					1974							Water Year Total
		OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
WATER SUPPLY														
<u>Measured Inflow</u>														
Sacramento River at Sacramento	94	1,028	2,858	3,790	4,601	2,910	3,977	3,944	1,794	1,453	1,337	1,473	1,491	30,656
Sacramento Weir Spill to Yolo Bypass	92	0	4	3	29	1	2	15	0	0	0	0	0	54
Yolo Bypass near Woodland	102	0	645	634	3,045	299	391	2,102	8	2	1	0	3	7,130
South Fork Putah Creek near Davis	101	0	1	2	74	34	161	115	3	1	1	0	0	392
Morriso Creek near Sacramento	118	1	2	3	4	1	2	1	0	1	1	0	0	16
Cosumnes River at McConnell	117	2	31	85	129	34	134	108	46	12	6	0	0	587
Dry Creek near Galt	115	0	5	29	40	8	29	22	3	1	1	0	0	138
Mokelumne River at Woodbridge	113	23	83	52	106	22	69	79	47	54	22	26	33	616
Bear Creek near Lodi	112	0	0	6	6	1	1	0	0	0	0	0	0	14
Calaveras River near Stockton	108	0	0	1	2	1	1	0	1	1	1	1	1	10
Stockton Diverting Canal at Stockton	110	0	0	19	33	0	25	0	0	0	0	0	1	78
French Camp Slough near French Camp	106	3	1	14	15	1	21	16	4	5	3	3	7	93
San Joaquin River near Vernalis	103	157	136	221	478	283	296	348	252	230	101	99	169	2,770
Marsh Creek near Byron	122	0	0	1	1	1	2	2	0	0	0	0	0	7
<u>Precipitation</u>		97	258	184	114	36	181	102	0	15	27	0	0	1,014
TOTAL WATER SUPPLY		1,311	4,024	5,044	8,677	3,632	5,292	6,854	2,158	1,775	1,501	1,602	1,705	43,575
WATER UTILIZATION														
<u>Consumptive Use in Delta Lowlands</u>		97	58	32	36	53	79	118	137	182	214	203	146	1,355
<u>Exportations</u>														
Delta-Mendota Canal	119	206	178	95	76	193	261	152	269	261	277	278	198	2,444
Contra Costa Canal	120	6	5	3	4	3	4	5	7	11	12	12	7	79
City of Vallejo	136	1	1	1	1	1	1	1	1	2	1	1	1	13
California Aqueduct	121	151	106	109	45	111	117	90	158	263	361	283	91	1,885
<u>Delta Uplands Diversions*</u>		23	4	3	1	1	12	34	60	69	80	74	47	408
*Measurement of Delta Uplands diversions was discontinued in 1970. Quantities shown are the 10-year average from 1961 through 1970.														
TOTAL WATER UTILIZATION		484	352	243	163	362	474	400	632	788	945	851	490	6,184



TABLE B-4

STREAMFLOW MEASUREMENTS  
AT MISCELLANEOUS SITES

This table shows the discharge rate on various streams at locations other than those where continuous recorders are maintained.

TABLE B-4  
STREAMFLOW MEASUREMENTS AT MISCELLANEOUS SITES

	Location		Measurements	
	Latitude	Longitude	Date	Discharge (cfs)
Old River at Head	37°48'29"	121°19'46"	10-9-73	1,397 (a)
Old River at Head	37°48'29"	121°19'46"	9-23-74	1,672 (b)
San Joaquin River above Old River	37°48'27"	121°19'28"	10-9-73	2,878 (a)
San Joaquin River above Old River	37°48'27"	121°19'28"	9-23-74	2,968 (b)

(a) The flows shown are mean flows for a period of 9 hours from 1000 to 1900.

(b) The flows shown are mean flows for a period of 7 hours from 0930 to 1630.

TABLE B-5

## DAILY MEAN DISCHARGE

The streamflow table for each stream or stream system is arranged in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Feather River at Yuba City) or well-known landmark (San Joaquin River at Brandt Bridge).

The discharge estimated for periods of no record or invalid record are shown with the letter "E". Also qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

Daily Flows - Second-Feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

Monthly Means - Second-Feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

Yearly Totals - Acre-Feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

The streamflow data received from cooperating agencies do not necessarily adhere to the above criteria.

Daily flow data computed by machines is rounded as listed above. However, monthly means, monthly acre-feet, and yearly totals are not rounded in this case.

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A13060	LASSEN CREEK NEAR WILLOW RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.1	1.9	6.1	4.4	14	9.6	82	80	29	8.8	3.6	2.0	1
2	1.1	1.8	6.1	4.4	17	9.6	76	95	28	8.0	3.7	1.8	2
3	1.1	1.8	6.1	4.2	20	14	68	98	27	7.6	3.2	1.7	3
4	1.1	1.7	6.1	4.2	14	13	62	96	26	7.2	3.1	1.7	4
5	1.1	2.0	6.1	4.0	17	11	61	96	27	7.2	3.5	1.7	5
6	1.2	2.3	5.7	3.7	19	13	57	97	25	7.1	4.2	1.7	6
7	3.1	3.4	5.4	3.5	16	12	55	100	24	7.3	3.4	1.5	7
8	2.0	8.3	5.1	3.3	13	15	57	105	23	9.5	3.2	1.4	8
9	1.6	3.5	4.4	3.3	13	17	57	106	22	9.1	3.0	1.4	9
10	1.5*	3.5	4.4	2.8	13	12	55	98	20	9.5	3.0	1.5	10
11	1.5	4.4	4.2	7.7	13	14	58 *	88	19	7.8	3.0	1.5	11
12	1.4	15	4.0	15	12	19	60	80	18	7.2	2.5	1.5*	12
13	1.4	7.3	4.4	24	9.6	18	59	72	17	6.6	2.7	1.4	13
14	1.3	5.4	5.1	34	8.0	31	61	64	16	6.2	2.8	1.4	14
15	1.3	4.9	5.7	44 *	8.5	42	65	57	15	5.8	2.9	1.4	15
16	1.3	5.9	6.4	46	8.3	40	70	54	15	5.7*	2.7	1.3	16
17	1.3	9.4	6.7	48	7.7	67	82	53	14	5.5	2.6	1.4	17
18	1.3	6.6	7.4	46	6.8	64	97	49	14	5.3	2.5	1.2	18
19	1.3	5.8	7.7	43	7.5	57	93	44	14	5.2	2.6	1.2	19
20	2.7	5.1	7.7	39	11	51	84	39	14	4.6	2.8	1.2	20
21	1.9	4.4	7.0	36	8.6	47	80	36	13	4.4	2.6	1.2	21
22	2.5	4.4	6.7	33	11	46	89	34	12	4.4	2.4*	1.2	22
23	3.7	4.3	6.1	30	18	46	92	32	11	4.3	2.3	1.3	23
24	3.2	4.0	5.7	27	14	49	88	32	11	4.0	2.2	1.2	24
25	2.9	4.0	5.7	23 *	8.3	54	80	33	10	3.6	2.1	1.2	25
26	2.1	4.1	5.4	20	7.4	63	74	34	10	4.0	2.1	1.2	26
27	1.9	4.2	5.4	19	7.5	65	69	36	9.7	4.0	2.0	1.2	27
28	1.9	5.7	5.1	17	7.5	61	63	36	9.3	3.9	1.9	1.2	28
29	2.0	5.7	4.7	18		75	62	35	8.7	3.8	1.8	1.2	29
30	2.0	6.1	4.7	15		112	67	33	9.5	3.6	1.8	1.3	30
31	2.0		4.4	15		87		31		3.5	2.2		31
MEAN	1.8	4.9	5.7	20.6	11.8	39.8	70.8	62.7	17.0	6.0	2.7	1.4	MEAN
MAX.	3.7	15.0	7.7	48.0	20.0	112	97.0	106	29.0	9.5	4.2	2.0	MAX.
MIN.	1.1	1.7	4.0	2.8	6.8	9.6	55.0	31.0	8.7	3.5	1.8	1.2	MIN.
AC. FT.	111	291	348	1264	656	2448	4211	3854	1014	366	167	84	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- - E AND \*

MEAN
DISCHARGE 20.5

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
138	3.88	03	30	0545

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
1.0	1.69	10	01	0230

TOTAL
ACRE FEET 14815

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 53 02	120 20 27	SE27 47N 14E	392	7.64	1/23/70	JUN 61-DATE	JUN 61-DATE	1961		0.00	LOCAL
Station located at U. S. Highway 395 culvert, approximately 2 mi. SE of Willow Ranch. Tributary to Goose Lake. Stage-discharge relationship affected by ice at times. Small amount of diversion above station. Drainage area is 25.7 sq. mi.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A14100	PINE CREEK NEAR ALTURAS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	12	11	16	12	13	13	24	26	79	32	15	16	1
2	12	10	16	11	12	15	26	30	74	30	14	15	2
3	12	11	16	11	12	15	21	32	71	29	14	15	3
4	11	11	16	11	13	16	18	33	69	28	14	15	4
5	12	11	16	10	12	21	18	36	72	28	15	15	5
6	12	11	16	10	14	43	18	39	70	27	15	14	6
7	14	12	16	9.9	15	23	17	44	70	26	15	14	7
8	12	12	16	9.7	14	19	17	51	67	27	15	14	8
9	12	11	16	9.1	12	20	18	60	63	27	15	14	9
10	12	12	16	12	12	24	17	66	55	25	15	14	10
11	12	12	16	14	12	42	17	77	54	23	16	14	11
12	12	14	16	17	12	39	17	77	53	22	16	14	12
13	12	12	16	24	11	25	17	72	54	22	16	14	13
14	11	12	16	24	12	25	17	70	54	21	16	14	14
15	11	11	16	33	11	25	18	65	55	20	15	14	15
16	11	12	16	24	11	20	19	60	54	20	14	14	16
17	11	13	16	24	11	18	20	58	51	19	16	14	17
18	11	11	16	25	11	17	24	54	50	19	17	14	18
19	11	12	16	91	12	16	34	50	49	18	17	13	19
20	12	17	15	30	12	15	32	46	49	18	17	13	20
21	11	15	15	18	11	15	24	41	45	17	18	13	21
22	11	13	15	17	10	15	23	41	42	17	18	13	22
23	12	12	16	17	10	15	24	43	40	16	17	13	23
24	12	13	15	15	14	15	20	44	38	16	17	13	24
25	12	13	15	15	17	16	21	47	37	16	17	13	25
26	11	13	14	14	20	17	21	52	36	15	17	13	26
27	11	14	14	14	14	17	20	59	35	15	16	13	27
28	11	17	14	13	12	17	19	65	34	15	16	14	28
29	11	18	13	12	19	19	19	77	33	15	16	13	29
30	11	17	13	14	20	20	21	84	32	14	16	13	30
31	11		12	13	19	19		84		14	16		31
MEAN	11.6	12.8	15.3	18.5	12.6	20.5	20.7	54.3	52.8	21.0	15.8	13.8	MEAN
MAX.	14.0	18.0	16.0	91.0	20.0	43.0	34.0	84.0	79.0	32.0	18.0	16.0	MAX.
MIN.	11.0	10.0	12.0	9.1	10.0	13.0	17.0	26.0	32.0	14.0	14.0	13.0	MIN.
AC. FT.	712	760	942	1138	698	1261	1232	3338	3144	1291	974	823	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - E AND \*

MEAN	MAXIMUM				MINIMUM				TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	DISCHARGE	GAGE HT.	MO.	DAY	ACRE FEET
22.5	93	1.88	05	30	3.9	0.54	02	23	16313

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	

41 25 59 120 26 32 SW35 42N 13E 435 3.37 6/2/71 NOV 57-DATE NOV 47-DATE 1957 0.00 LOCAL

Station located approximately 0.3 mi. N of Pine Creek Boulevard, 6.1 mi. SE of Alturas. Tributary to Pit River. Stage-discharge relationship affected by ice at times. Station discontinued in October 1963, reinstalled April 16, 1964 at a site approximately 2,000 feet downstream. Flow affected by Pine Creek Reservoir. Drainage area is 23.9 sq. mi.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A18350	ASH CREEK AT ADIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	19	28	121	78	107	289	1,110	153	36	19	27	14	1
2	20	29	94	54	73	253	784	165	35	19	28	16	2
3	20	31	78	65	68	201	727	168	28	21	29	17	3
4	17	31	64	44	74	179	524	165	25	21	27	17	4
5	18	32	58	59	62	188	445	164	28	22	32	18	5
6	28	32	73	55	53	422	414	164	34	20	29	17	6
7	39	33	86	46	55	382	344	163	32	17	27	17	7
8	31	32	77	43	55	232	317	167	32	26	26	17	8
9	27	30	62	47 *	56	212	307 *	168	28	32	25	19	9
10	31	32	56	46	58	366	288	159	24	40	24	19	10
11	28	39	60	49	57	573	264	143	25	36	22	19 *	11
12	26	81	59	57	61	573	237	134	22	33	23	20	12
13	26	66	60	115	56	430	214	128	21	30	23	21	13
14	25	60	70	266	57 *	380	202	120	19	27	22	22	14
15	25	61	75	891	54	473	198	109	20	25 *	22	23	15
16	26	93	87	670	60	511	193	100 *	22	24	27	23	16
17	25	101	276	512	59	665	194	101	22	23	30	22	17
18	25	92	128	776	63	543	226	99	22	22	27	21	18
19	25	60	86	1,810	73	458	227	90	22 *	21	25	20	19
20	31	52	79	866	66	389	200	76	25	21	26	19	20
21	27	48	135	453	64	338	187	64 *	26	19	25 *	18	21
22	27	47	135	281	64	309	186	60	21	19	24	20	22
23	34	46	113	211	58	283	193	52	21	16	24	20	23
24	30	47	97	164	70	268	187	43	21	29	26	20	24
25	37 *	47	131	146	114	265	176	44	21	22	26	20 *	25
26	29	46	109	127 *	134	274	166	44	23	31	26	20	26
27	36	49	187	103	114	279	159	38	23	30	25	21	27
28	30	66	246	96	105	310	150	33	22	28	17	21	28
29	29	72 *	365	87		897	143	34	20	24	9.3	22	29
30	29	167	149	83		760	144	37	19	23	10	23	30
31	27		108	90		575		34		25	12		31
MEAN	27.3	55.0	113	270	71.1	396	303	103	24.6	24.7	24.0	19.5	MEAN
MAX.	39.0	167	365	1,810	134	897	1,110	168	36.0	40.0	32.0	23.0	MAX.
MIN.	17.0	28.0	56.0	43.0	53.0	179	143	33.0	19.0	16.0	9.3	14.0	MIN.
AC. FT.	1680	3273	6990	16641	3947	24351	18061	6385	1466	1517	1478	1162	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- E AND \*

WATER YEAR SUMMARY

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
120.1	2790	8.6	86952
	GAGE HT. 14.37	GAGE HT. 4.53	
	MO. DAY TIME 01 19 0445	MO. DAY TIME 08 28 2200	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFs	GAGE HT.	DATE			FROM	TO		
41 11 54	120 56 30	SW21 39N 9E	2950	14.69	1/20/70	MAR 37-SEP 57 8 SEP 57-DATE	MAR 37-SEP 57 8 SEP 57-DATE	1957		0.00	LOCAL
Station located 300 feet above State Highway 299 bridge. Tributary to Pit River. Stage-discharge relationship affected by ice at times. Flow affected by upstream diversion. Drainage area is 258 sq. mi.											
8 - Irrigation season only.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A15150	BURNEY CREEK NEAR BURNEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	18	23	409	230	284	235	564	195	118	47	32	25	1
2	18	23	274	190	258	238	453	195	119	45	33	25	2
3	16	21	203	171	231	239	342	193	118	43	33	24	3
4	13	21	169	150	224	219	304	188	116	42	32	24	4
5	15	48	151	141	207	216	329	188	113	42	32	24	5
6	21	85	145	130	197	233	343	192	110	42	31	23	6
7	46	171	161	120	197	233	320	197	107	41	31	23	7
8	31	170	159	100	193	216	327	204	99	60	30	24	8
9	25	264	138	106	186	203	348	203	96	65	30	22	9
10	22	414	127	110	182	202	314	192	94	60	29	13	10
11	19	1,120	150	113	178	264	296	184	92	54	29	18	11
12	19	1,100	134	105	177	263	287	179	89	50	28	18	12
13	19	653	161	291	170	249	271	172	87	47	28	18	13
14	18	387	141	469	166	248	263	164	84	45	27	18	14
15	18	345	132	2,140	156	254	258	159	78	45	27	19	15
16	15	496	127	2,190	174	259	255	153	77	44	26	19	16
17	17	498	184	1,090	160	318	253	122	75	43	26	20	17
18	19	405	173	1,020	161	300	253	147	71	41	24	20	18
19	18	274	142	1,300	186	271	237	140	73	40	24	21	19
20	19	216	137	731	168	255	227	130	72	39	24	21	20
21	20	186	164	601	165	245	224	124	68	39	22	21	21
22	42	169	165	557	152	243	227	122	64	38	22	22	22
23	77	147	153	493	154	234	231	120	61	38	25	22	23
24	44	131	138	423	152	230	224	120	58	37	25	22	24
25	32	125	141	372	152	234	217	122	55	36	25	22	25
26	27	114	138	325	160	268	206	128	55	34	23	20	26
27	25	106	200	298	154	390	197	131	54	34	24	19	27
28	24	116	334	279	208	399	190	131	52	34	24	19	28
29	23	144	578	262		802	188	129	50	33	25	19	29
30	23	339	396	249		1,000	190	125	48	34	25	19	30
31	23		287	267		480		120		34	25		31
MEAN	24.7	277	197	484	184	304	277	158	81.8	42.8	27.1	20.8	MEAN
MAX.	77.0	1,120	578	2,190	284	1,000	564	204	119	65.0	33.0	25.0	MAX.
MIN.	13.0	21.0	127	100	152	202	188	120	48.0	33.0	22.0	13.0	MIN.
AC. FT.	1519	16485	12121	29798	10219	18724	16538	9713	4865	2630	1668	1238	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 ± - ± AND ±

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 173.4	DISCHARGE 2890	DISCHARGE 13.0	ACRE FEET 125518
	GAGE HT. 13.81	GAGE HT. 5.74	
	MO. DAY TIME 01 15 1100	MO. DAY TIME 10 04 1530	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
40 52 18	121 40 58	SW19 35N 3E	4910	15.89	1/23/70	APR 58-DATE	APR 58-DATE	1958		0.00	LOCAL

Station located 300 ft. above county road bridge, 0.8 mi. SW of Burney. Tributary to Pit River. Stage-discharge relationship affected by ice at times. Flow affected by upstream diversion. Drainage area is 87.7 sq. mi.

TABLE B-5 (Cont.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A03545	COTTONWOOD CREEK NORTH FORK NEAR IGO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	9.9	33	960	491	565	567	3,220	238	118	74	36	15	1
2	9.9*	30	640	453	480	503	1,670	229	115	73	36	14	2
3	9.3	21	510	440	456	477	1,220	217	114	73	35	14	3
4	8.8	20	491	402	432	419	1,040	203	114	70	35	13	4
5	8.8	66	478	376	400	386	985	199	110	70	47	12	5
6	12	76	434	344	363	410	911	194	110	68	42	11	6
7	32	106	389	325	313	590	829	189	108	66	37	11	7
8	20	170	363	293	277	402	788	184	106	68	34	11	8
9	22	600	338	274	243	346	772	180	106	67	32	11	9
10	16	824	312	259	224	327	639	174	102	66	31	9.9	10
11	15	1,090	325	255	218	764	568	172	98	66	31	10	11
12	13	1,020	280	281	222	900	533	165	97	63	31	11	12
13	15	624	299	382	207	736	512	165	94	63	31	11	13
14	15	523	260	1,170	198	685	495	159	94	61	29	11	14
15	15	523	250	2,410	201	644	475	159	92	58	29	10	15
16	15	1,400	235	7,560	211	598	443	156	90	56	28	9.9	16
17	15	1,130	245	3,140	192	543	402	155	90	54	28	10	17
18	15	1,390	225	2,760	375	481	363	151	87	55	27	10	18
19	15	728	225	1,850	477	444	303	153	88	55	27	9.9	19
20	16	600	255	1,280	266	416	277	150	89	54	27	9.9	20
21	21	504	1,100	972	246	393	265	142	87	52	24	9.9	21
22	98	491	581	841	225	370	258	135	87	51	21	9.9	22
23	126	466	504	774	213	350	286	130	85	50	20	9.7	23
24	73	453	468	720	208	332	328	130	83	49	19	9.6	24
25	50	434	414	664	203	336	287	127	83	47	17	9.5	25
26	45	382	517	595	199	305	289	126	80	45	18	9.6	26
27	41	350	624	540	194	367	271	126	80	44	17	9.6	27
28	39	318	744	497	594	508	268	122	79	42	18	9.3	28
29	37	338	1,400	470		2,560	261	122	76	39	18	9.7	29
30	36	1,130	696	444		2,570	248	119	76	38	16	10	30
31	34		555	708		1,920		117		36	15		31
MEAN	29.0	528	485	1,031	300	666	640	160	94.6	57.2	27.6	10.7	MEAN
MAX.	126	1,400	1,400	7,560	594	2,570	3,220	238	118	74.0	47.0	15.0	MAX.
MIN.	8.8	20.0	225	255	192	305	248	117	76.0	36.0	15.0	9.3	MIN.
AC. FT.	1781	31418	29865	63412	16665	40957	38098	9894	5629	3517	1698	637	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- E AND \*

WATER YEAR SUMMARY

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
336.4	10400	36.36	01	16	1245	6.9	29.62	09	02	1600	243570

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 26 32	122 32 57	NW21 30N 6W	11000	39.45	12/22/64	NOV 56-DATE	NOV 56-DATE	1956		30.60	LOCAL
Station located at county road bridge, 4.4 mi. S of Igo, 4.4 mi. SE of Ono. Tributary to Sacramento River via Cottonwood Creek. Flow affected by upstream diversion and releases from Rainbow Lake. Drainage area is 88.7 sq. mi.											



TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A03595	COTTONWOOD CREEK SOUTH FORK NEAR COTTONWOOD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	51	1,580	715	418	1,700	3,120	311	192	54	13	3.4	1
2	0.0	49	630	543	359	1,130	2,610	315	188	50	12	3.4	2
3	0.0	49	433	475	325	1,000	1,810	318	190	49	11	3.3	3
4	0.0	50	364	424	305	617	1,350	315	185	45	11	3.4	4
5	0.0	75	331	387	287	527	1,090	315	187	43	11	3.2	5
6	0.0	190	315	360	267	493	912	327	208	42	21	2.8	6
7	0.5	242	329	344	254	1,120	766	359	191	42	18	2.8	7
8	3.7*	337	364	322	241	559	685	407	168	54	14	2.6	8
9	5.9	315	350	298	230	430	650	420	149	82	11	2.5	9
10	7.4	820	320	284	220	383	582	362	136	67	9.6	2.3	10
11	7.4	1,570	329	279	213	735	521	324	133	56	9.0	2.1*	11
12	6.8	1,800	322	297	212	725	487	300	133	51	8.1	2.0	12
13	6.1	841	459	636	208	480	456	282	129	46	7.5	1.9	13
14	5.5	545	431	1,380	194	425	433	264	121	40	7.3	1.9	14
15	5.5	454	378	6,280	184	448	425	255	114	36	7.0	1.9	15
16	5.4	674	359	15,000	184	476	418	240	114	34	6.5	1.9	16
17	5.5	711	422	7,560	175	504	427	237	113	32	6.5	2.0	17
18	5.4	620	482	4,390	186	516	425	233	100	31	6.1	2.0	18
19	4.6	428	417	4,230	398	467	382	216	103	29	5.9	2.0	19
20	6.5	342	405	2,830	345	416	350	195	116	28	5.6	2.0	20
21	8.0	297	2,220	1,840	294	377	347	178	94	27	5.4	2.0	21
22	21	255	1,310	1,310	267	356	340	177	84	26	5.3	2.0	22
23	166	229	759	1,030	238	338	366	170	79	25	4.9	2.0*	23
24	200	224	618	868	225	324	398	170	77	22	4.8	1.9	24
25	127	222	592	751	218	332	362	178	73	21	4.3	1.9	25
26	105	216	557	658	216	355	344	201	70	18	4.0	1.8	26
27	86	205	733	582	214	362	309	231	65	20	3.6	1.8	27
28	71	202	822	526	912	467	294	243	61	22	3.7	1.8	28
29	62	223	2,150	477		3,820	288	242	57	18	3.7	1.7	29
30	58	1,280	1,560	434		7,110	291	224	55	16	3.5	1.6	30
31	53		991	423		3,290		205		14	3.5		31
MEAN	33.3	450	688	1,804	278	976	707	265	122	36.8	8.0	2.3	MEAN
MAX.	200	1,800	2,220	15,000	912	7,110	3,120	420	208	82.0	21.0	3.4	MAX.
MIN.	0.0	49.0	315	279	175	324	288	170	55.0	14.0	3.5	1.6	MIN.
AC. FT.	2049	26809	42311	110941	15449	60063	42125	16292	7309	2261	492	135	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - E AND \*

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 450.6	DISCHARGE 18700 GAGE HT. 14.05 MO. DAY TIME 01 16 1330	DISCHARGE 0.0 GAGE HT. 1.30 MO. DAY TIME 10 01 0000	ACRE FEET 326237

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
40 18 58	122 26 52	SE32 29N 5W	18700	14.05	1/16/74	APR 58-DATE	APR 58-DATE	1958		0.00

Station located at Bowman Road bridge, 11 mi. SW of Cottonwood. Tributary to Sacramento River via Cottonwood Creek. Flow affected by upstream diversion. Drsinage area is 217 sq. mi.

TABLE B-5 (Cont.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A03460	REDBANK CREEK NEAR REDBLUFF

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	299	66	85	259	760	37	6.9	0.3	0.0	0.0	1
2	0.0	0.0	88	59	72	162	381	33	6.6	0.3	0.0	0.0	2
3	0.0	0.0	61	61	63	327	263	31	5.7	0.2	0.0	0.0	3
4	0.0	0.0	49	58	57	160	193	27	4.7	0.2	0.0	0.0	4
5	0.0	0.0	43	58	50	133	177	25	4.1	0.2	0.0	0.0	5
6	0.0	0.0	37	57	46	125	152	23	3.9	0.2	0.0	0.0	6
7	0.0	0.0	33	57	41	485	129	22	3.5	0.1	0.0	0.0	7
8	0.0	0.0	30	53	40	213	116	22	3.3	0.3	0.0	0.0	8
9	0.0	0.0	27	48	39	147	120	20	3.2	1.1	0.0	0.0	9
10	0.0	12	26	44	36	142	97	19	3.0	2.1	0.0	0.0	10
11	0.0	85	28	42	34	644	83	18	2.7	1.9	0.0	0.0	11
12	0.0	84	28	63	35	608	75	18	2.6	1.5	0.0	0.0	12
13	0.0	34	39	84	33	209	70	17	2.3	1.1	0.0	0.0	13
14	0.0	29	36	236	31	166	64	17	2.1	0.7	0.0	0.0	14
15	0.0	25	31	900	28	142	59	15	2.0	0.5	0.0	0.0	15
16	0.0	146	28	3,510	28	124	57	15	2.3	0.4	0.0	0.0	16
17	0.0	228	26	1,400	27	110	51	17	3.1	0.3	0.0	0.0	17
18	0.0	172	24	770	27	97	60	20	2.8	0.3	0.0	0.0	18
19	0.0	76	25	495	36	84	55	17	3.0	0.2	0.0	0.0	19
20	0.0	60	31	370	26	76	47	15	4.3	0.2	0.0	0.0	20
21	0.0	50	801	276	23	70	43	15	3.2	0.1	0.0	0.0	21
22	0.0	43	154	225	22	65	40	15	2.4	0.1	0.0	0.0	22
23	0.0	38	83	193	21	59	64	14	1.8	0.0	0.0	0.0	23
24	0.0	34	67	174	20	55	134	13	1.6	0.0	0.0	0.0	24
25	0.0	31	55	155	20	54	103	12	1.5	0.0	0.0	0.0	25
26	0.0	28	54	136	20	54	78	11	1.4	0.0	0.0	0.0	26
27	0.0	25	76	121	21	65	65	10	1.3	0.0	0.0	0.0	27
28	0.0	24	79	110	294	90	54	9.3	1.0	0.0	0.0	0.0	28
29	0.0	23	172	99		1,870	46	8.7	0.6	0.0	0.0	0.0	29
30	0.0	905	89	88		1,760	41	8.3	0.4	0.0	0.0	0.0	30
31	0.0		73	87		587		7.6		0.0	0.0	0.0	31
MEAN	0.0	71.7	86.8	325	45.5	294	122	17.8	2.9	0.4	0.0	0.0	MEAN
MAX.	0.0	905	801	3,510	294	1,870	760	37.0	6.9	2.1	0.0	0.0	MAX.
MIN.	0.0	0.0	24.0	42.0	20.0	54.0	40.0	7.6	0.4	0.0	0.0	0.0	MIN.
AC. FT.		4268	5340	20023	2529	18133	7293	1095	173	24			AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- - - END -

WATER YEAR SUMMARY

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
81.3	6680	0.0	58878
	GAGE HT. 9.52	GAGE HT. 3.08	
	MO. DAY TIME 01 16 1000	MO. DAY TIME 10 01 0000	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 05 25	122 24 45	SE22 26N 5W	9729	10.06	1/5/65	FEB 48-JUL 49 8 MAY 50-MAY 56 NOV 56-DATE	FEB 48-JUL 49 8 MAY 50-MAY 56 NOV 56-DATE	1956		0.00	LOCAL
Station located at Briggs Road bridge, 11 mi. SW of Red Bluff. Flow affected by upstream diversion. Drainage area is 93.5 sq. mi.											
8 - Irrigation season only.											

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02700	SACRAMENTO RIVER AT VINA BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	9,410	6,500	92,300	46,100	49,800	39,800	126,000	13,200	17,400	13,900	12,300	13,500	1
2	9,490	6,470	55,400	42,500	43,700	32,400	133,000	13,100	17,200	13,800	12,300	13,500	2
3	9,320	6,450	43,500	39,200	38,600	29,900	112,000	12,300	17,300	13,500	12,300	13,500	3
4	9,360	6,380	48,100	33,000	37,400	20,600	85,300	12,000	16,800	13,100	12,400	13,400	4
5	9,040	6,580	48,300	31,400	35,000	17,700	53,800	11,500	16,400	13,100	12,300	13,300	5
6	8,230	6,860	46,600	32,700	30,500	17,900	51,100	15,400	16,300	13,200	12,400	13,500	6
7	8,890	9,920	46,200	32,700	27,000	41,400	44,300	20,500	16,200	13,500	12,500	13,500	7
8	9,290	12,300	44,100	30,900	25,000	38,700	41,600	20,700	16,000	13,800	12,800	13,500	8
9	8,830	9,900	36,800	27,400	22,500	28,500	42,400	20,900	15,800	14,700	13,300	13,500	9
10	8,690	24,700	31,400	24,900	17,500	24,500	41,800	21,000	15,800	14,700	13,600	13,500	10
11	8,560	52,200	31,900	24,500	15,100	23,800	40,200	20,700	15,700	14,000	13,700	12,700	11
12	8,460	62,000	34,200	27,700	17,800	25,700	39,200	20,600	15,500	13,600	13,600	12,100	12
13	8,450	47,500	34,200	33,900	23,300	21,400	38,700	20,300	15,200	12,400	13,600	12,100	13
14	8,440	40,000	32,100	38,900	22,800	18,800	37,700	18,000	15,100	13,100	13,700	12,500	14
15	8,070	39,300	29,100	91,600	22,500	24,900	32,800	16,600	15,000	13,000	13,600	12,500	15
16	6,940	45,600	27,700	142,000	21,800	38,400	32,100	16,900	15,000	12,900	13,600	12,500	16
17	6,820	58,200	28,500	142,000	20,800	39,500	31,800	16,900	15,100	12,800	13,700	11,900	17
18	6,700	67,300	30,300	107,000	19,500	39,200	31,700	17,400	14,800	12,800	13,700	10,800	18
19	6,680	57,900	28,200	107,000	27,500	38,300	28,500	17,200	14,900	12,800	13,600	9,790	19
20	6,620	33,100	27,500	94,100	24,000	37,600	19,700	17,000	15,100	12,700	13,600	9,120	20
21	6,690	25,300	42,900	86,500	21,100	37,000	15,400	15,900	14,900	12,700	13,600	9,060	21
22	6,970	48,900	54,200	83,100	20,900	36,200	13,700	15,500	14,700	12,700	13,700	9,010	22
23	8,300	50,100	39,500	78,400	19,800	28,500	13,300	15,400	14,600	12,600	13,500	9,040	23
24	7,930	47,600	37,900	75,400	19,000	19,400	14,400	15,600	14,500	12,500	13,700	8,870	24
25	7,260	47,200	35,400	73,100	17,400	15,400	15,000	16,200	14,300	12,400	13,600	9,050	25
26	6,840	45,600	34,400	68,800	16,100	15,400	14,500	16,700	14,100	12,400	13,500	8,960	26
27	6,870	38,100	40,000	60,600	14,600	16,800	15,100	17,000	14,100	12,400	13,400	8,920	27
28	6,740	35,600	52,700	59,500	16,500	19,700	20,600	17,100	14,100	12,400	13,300	8,970	28
29	6,620	35,400	73,800	58,300		51,900	21,000	17,800	14,000	12,400	13,400	8,980	29
30	6,520	50,100	66,700	55,600		135,000	16,800	17,800	14,000	12,400	13,500	9,050	30
31	6,560		50,300	46,200		133,000		17,700		12,400	13,500		31
MEAN	7,857	34,102	42,716	61,129	24,553	35,719	40,783	16,932	15,330	13,054	13,267	11,360	MEAN
MAX.	9,490	67,300	92,300	142,000	49,800	135,000	133,000	21,000	17,400	14,700	13,700	13,500	MAX.
MIN.	6,520	6,380	27,500	24,500	14,600	15,400	13,300	11,500	14,000	12,400	12,300	8,870	MIN.
AC. FT.	483153	2029209	2626511	3758676	1363636	2196296	2426776	1041123	912198	802710	815801	676006	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
- DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- E AND -

WATER YEAR SUMMARY

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
26426.8	159000	6040.0	19132095
	GAGE HT.	GAGE HT.	
	90.36	66.35	
	MO. DAY TIME	MO. DAY TIME	
	01 16 2100	11 06 0345	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 54 34	122 05 31	NE28 24N 2W	171000	91.48	1/24/70	APR 45-DATE	APR 45-DATE	1945		100.00	USED
								1945		97.15	USCGS
Station located 250 ft. above Vina-Corning Highway bridge, 2.6 mi. SW of Vina. The maximum discharge of record is for the main river channel and does not include water by-passing the station on the left bank. Flow regulated by Shasta Lake since December 30, 1943. Approximately 190,000 acre-feet diverted from the river between Keswick and Vina in addition to diversions from the tributaries. Trans-basin diversions from the Trinity River to Whiskeytown Reservoir via Judge Francis Carr Powerplant began in April 1963. Drainage area, excluding Goose Lake Basin, is approximately 10,930 sq. mi.											

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02630	SACRAMENTO RIVER AT HAMILTON CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	8,990	7,930	91,900	45,300	49,400	37,400	117,000	11,800	14,900	11,500	10,000	11,600	1
2	8,990	7,920	63,900	42,000	45,300	34,000	124,000	11,500	14,700	11,400	10,000	11,700	2
3	8,940	7,960	45,500	39,400	39,700	30,000	112,000	10,800	14,700	11,100	10,000	11,900	3
4	8,950	7,970	47,000	33,800	38,200	21,900	89,800	10,200	14,500	10,700	10,100	11,700	4
5	8,880	8,120	48,900	31,400	36,300	18,300	58,500	9,760	14,000	10,700	10,200	11,700	5
6	8,110	8,310	46,800	32,600	31,600	18,100	52,600	12,100	13,900	10,800	10,200	11,900	6
7	8,900	10,500	48,500	32,600	28,100	35,100	46,800	18,000	13,800	11,100	10,300	12,000	7
8	9,140	13,500	45,300	31,400	25,500	42,000	43,300	18,500	13,600	11,500	10,600	12,100	8
9	8,770	11,300	39,200	28,300	23,700	29,200	43,400	18,400	13,400	12,300	11,000	12,100	9
10	8,650	22,600	33,400	25,600	18,600	25,300	43,000	18,800	13,200	12,600	11,300	12,300	10
11	8,620	46,700	32,900	25,300	15,700	23,700	41,400	18,400	13,000	12,000	11,400	11,800	11
12	8,560	64,600	35,700	27,800	16,500	26,700	40,500	18,400	13,000	11,500	11,500	11,100	12
13	8,560	49,900	34,900	33,700	22,900	26,700	39,800	18,200	12,500	10,400	11,400	11,200	13
14	8,540	41,700	34,000	38,000	22,500	19,700	39,100	16,400	12,400	10,900	11,500	11,500	14
15	8,450	39,500	30,700	75,600	22,300	22,600	35,000	14,500	12,400	10,800	11,300	11,500	15
16	7,530	44,400	29,100	124,000	21,700	37,300	33,200	14,500	12,300	10,700	11,300	11,700	16
17	7,380	56,200	29,200	151,000	20,900	38,500	32,400	14,600	12,300	10,500	11,300	11,400	17
18	7,310	64,100	31,400	117,000	19,700	38,700	32,000	15,100	12,300	10,500	11,400	10,200	18
19	7,330	62,600	29,400	111,000	25,400	38,000	29,900	15,200	12,300	10,500	11,400	9,440	19
20	7,310	39,600	28,400	98,200	24,900	37,200	21,000	14,900	12,600	10,400	11,400	8,510	20
21	7,360	24,900	37,900	87,400	21,300	36,500	15,800	14,000	12,500	10,400	11,300	8,440	21
22	7,630	47,100	56,700	84,300	20,800	35,700	13,300	13,300	12,200	10,400	11,500	8,410	22
23	8,550	49,900	40,300	79,200	19,900	30,100	12,500	13,200	12,200	10,300	11,300	8,400	23
24	8,680	47,800	38,200	75,700	19,200	21,000	13,300	13,300	12,100	10,200	11,400	8,260	24
25	8,120	47,500	35,700	73,300	17,700	16,500	14,200	13,800	11,900	10,200	11,500	8,300	25
26	7,870	46,300	34,700	70,100	16,400	15,900	13,600	14,300	11,700	10,100	11,400	8,300	26
27	8,020	40,400	38,500	61,400	14,900	17,000	13,200	14,600	11,600	10,200	11,400	8,330	27
28	7,990	37,200	49,000	59,700	14,900	19,800	18,900	14,700	11,600	10,200	11,300	8,320	28
29	7,920	36,900	63,700	58,400		38,100	19,500	15,100	11,500	10,200	11,400	8,350	29
30	7,880	45,300	70,700	56,700		110,000	16,600	15,300	11,500	10,100	11,500	8,390	30
31	7,920		49,900	48,300		125,000		15,100		10,100	11,600		31
MEAN	8,240	34,623	43,266	61,241	24,785	34,248	40,853	14,734	12,826	10,783	11,071	10,361	MEAN
MAX.	9,140	64,600	91,900	151,000	49,400	125,000	124,000	18,800	14,900	12,600	11,600	12,300	MAX.
MIN.	7,310	7,920	28,400	25,300	14,900	15,900	12,500	9,760	11,500	10,100	10,000	8,260	MIN.
AC. FT.	506677	2060250	2656660	3765618	1376528	2105850	2430941	905970	763239	663074	680727	616562	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- - - - -

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO. DAY TIME
25598.0	158000	49.65	01 17 1415
	7110.0	28.09	10 20 1000
			18532096

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
39 45 07	121 59 43	NE20 22N 1W	158,000	49.65	1/17/74	SEP 45-DATE	27-DATE	1927	1945	127.9	USED
								1945		100.0	USED
								1945		96.5	USCGS
Station located at Gianella bridge, State Highway 32, 1.0 mi. NE of Hamilton City. The maximum discharges of record since Feb. 1940, are for the main river channel and do not include water by-passing the station on the left bank. Flow regulated by Shasta Lake since December 30, 1943. Approximately 950,000 acre-feet diverted from the river between Keswick and Hamilton City in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Francis Carr Powerplant began in April 1963. Drainage area, excluding Goose Lake Basin, is approximately 11,060 sq. mi.											

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A04242	HUD CREEK NEAR CHICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	752	148	51	774	674	15	4.5	0.1	0.0	0.0	1
2	0.0	0.0	239	99	36	347	395	14	4.1	0.3	0.0	0.0	2
3	0.0	0.0	167	74	29	256	265	14	3.9	0.4	0.0	0.0	3
4	0.0	0.0	113	60	26	179	195	13	3.5	0.7	0.0	0.0	4
5	0.0	3.7	76	51	23	140	159	12	3.1	0.0	0.0	0.0	5
6	0.0	12	55	51	21	108	118	12	2.9	0.0	0.0	0.0	6
7	3.1	63	40	56	20	381	85	11	2.3	0.0	0.0	0.0	7
8	0.9	28	31	38	19	224	71	11	2.1	1.4	0.0	0.0	8
9	0.2	316	25	29	19	142	77	10	2.0	2.4	0.0	0.0	9
10	0.0	499	22	24	18	102	57	9.7	1.8	1.5	0.0	0.0	10
11	0.0	2,980	33	29	18	439	45	9.5	1.5	0.3	0.0	0.0	11
12	0.0	2,040	26	278	19	312	38	9.4	1.1	0.0	0.0	0.0	12
13	0.0	373	87	187	20	200	32	8.9	1.1	0.0	0.0	0.0	13
14	0.0	215	49	572	18	161	29	8.6	1.1	0.0	0.0	0.0	14
15	0.0	135	33	1,090	17	123	26	8.5	1.3	0.0	0.0	0.0	15
16	0.0	742	26	1,510	40	87	25	8.4	1.3	0.0	0.0	0.0	16
17	0.0	530	153	646	24	63	22	8.7	2.2	0.0	0.0	0.0	17
18	0.0	412	70	741	20	51	21	8.7	2.5	0.0	0.0	0.0	18
19	0.0	222	46	386	94	41	21	8.4	2.5	0.0	0.0	0.0	19
20	0.0	211	35	275	59	33	20	7.8	2.6	0.0	0.0	0.0	20
21	0.0	166	603	206	46	27	19	7.5	1.7	0.0	0.0	0.0	21
22	28	159	372	160	37	24	19	7.6	0.8	0.0	0.0	0.0	22
23	32	124	218	121	31	22	23	6.9	0.3	0.0	0.0	0.0	23
24	5.1	91	170	88	27	21	25	6.8	0.0	0.0	0.0	0.0	24
25	1.6	63	110	69	23	25	22	6.6	0.0	0.0	0.0	0.0	25
26	0.4	47	123	58	22	38	20	5.9	0.0	0.0	0.0	0.0	26
27	0.0	33	375	46	21	93	18	5.6	0.0	0.0	0.0	0.0	27
28	0.0	26	387	38	982	180	17	5.2	0.2	0.0	0.0	0.0	28
29	0.0	24	312	33		2,450	16	5.2	0.1	0.0	0.0	0.0	29
30	0.0	799	246	30		5,070	15	5.1	0.0	0.0	0.0	0.0	30
31	0.0		183	40		729		4.7		0.0	0.0	0.0	31
MEAN	2.3	343	167	233	63.6	414	85.6	8.9	1.7	0.2	0.0	0.0	MEAN
MAX.	32.0	2,980	752	1,510	982	5,070	674	15.0	4.5	2.4	0.0	0.0	MAX.
MIN.	0.0	0.0	22.0	24.0	17.0	21.0	15.0	4.7	0.0	0.0	0.0	0.0	MIN.
AC. FT.	141	20457	10268	14346	3531	25472	5096	547	100	14			AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- - F AND -

WATER YEAR SUMMARY												
MEAN		MAXIMUM						MINIMUM				
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME		DISCHARGE	GAGE HT.	MO.	DAY	TIME
110.5		11500	11.00	03	30	0400		0.0	1.95	10	01	2300
								TOTAL				
								ACRE FEET				
								79972				

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 47 02	121 53 06	SE5 22N 1E	10,400		1/13/69	NOV 64-DATE	NOV 64-DATE	1964		0.00	LOCAL
Station located 0.1 mi. above Old Highway 99E bridge, 4.9 mi. N of Chico. Tributary to Sacramento River via Big Chico Creek. Includes an undetermined amount of water from Big Chico Creek. Drainage area is 47.5 sq. mi.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A00928	MUD CREEK DIVERSION AT CHICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	0.0	0.0	0.0	0.0	61	0.0	0.0	0.0	0.0	0.0	1
2	0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	2
3	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	3
4	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	4
5	0.0	0.0	0.0	0.0	0.0	0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0*	0.0	6
7	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	10
11	0.0	740	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	742	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	100 *	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	351	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	1,190	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	0.0	0.0	0.0	2,660 *	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	202	0.0	0.0	0.0	0.0	0.0	8.5	31
MEAN	0.0	49.4	0.0	17.1	0.0	130	2.0	0.6	0.0	0.0	0.0	0.3	MEAN
MAX.	0.0	742	0.0	351	0.0	2,660	61.0	18.0	0.0	0.0	0.0	8.5	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.		2940		1053		8037	121	36				17	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
16.9	5000	12.37	03	30	0345	0.0	6.87	10	01	0000	12204

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 47 07	121 48 01	SW18 22N 2E				NOV 64-DATE	NOV 64-DATE	1964		0.00	LOCAL
Station located 0.4 mi. above Wildwood Avenue bridge, 4.0 mi. NE of Chico. This flow is diverted from Lindo Channel into Mud Creek during periods of high water. Crest of diversion weir is at gage height 8.38.											

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	9.9	7.6	754	410	303	790	638	101	41	21	27	10	1
2	10	7.6	537	321	254	704	620	98	51	19	22	9.6	2
3	9.5	7.9	430	265	222	595	532	95	75	20	13	9.2	3
4	8.9	7.8	339	227	202	516	459	91	75	19	13	12	4
5	8.9	12	260	204	184	461	416	88	68	15	12	9.3	5
6	12	40	206	188	168	430	381	87	55	16	11	8.8	6
7	20	167	170	164	155	459	331	86	40	19	16	8.6	7
8	15	124	147	149	144	442	302	83	36	38	15	8.5	8
9	12	162	129	135	133	419	306	80	36	51	13	9.0	9
10	11	512	115	123	127	403	277	77	37	39	14	12	10
11	9.6	778	122	118	121	515	254	75	31	28	11	8.7	11
12	9.1	747	118	204	120	620	230	73	32	26	14	8.2	12
13	8.3	518	165	396	118	565	212	70	30	23	14	8.6	13
14	6.7	443	159	512	109	508	196	68	29	22	14	9.1	14
15	5.7	327	138	946	103	464	183	67	29	21	17	9.5	15
16	7.4	500	125	962	135	433	172	66	30	19	13	9.0	16
17	9.7	502	177	887	126	410	162	69	34	24	15	9.1	17
18	9.3	496	178	792	118	386	156	76	31	18	15	8.0	18
19	9.6	470	160	726	355	349	150	71	33	18	14	7.4	19
20	11	422	143	647	353	314	139	66	36	17	9.0	7.4	20
21	13	312	299	572	278	278	132	62	31	16	10	7.5	21
22	31	250	515	507	234	250	126	55	29	17	10	7.6	22
23	116	202	417	456	197	231	133	46	27	15	10	7.4	23
24	39	173	330	423	174	213	140	30	26	16	10	7.7	24
25	20	150	262	389	156	217	137	27	24	15	10	7.2	25
26	13	134	236	339	147	253	128	25	24	15	12	7.7	26
27	10	113	363	292	140	414	121	22	23	14	8.4	8.2	27
28	8.6	100	545	258	398	565	114	29	22	15	9.9	7.8	28
29	9.2	95	587	231		730	109	43	22	16	10	7.5	29
30	8.8	313	552	210		810	104	43	22	15	11	3.4	30
31	7.6		470	226		623		41		21	11		31
MEAN	15.5	269	295	396	188	463	245	64.8	36.0	20.9	13.0	8.5	MEAN
MAX.	116	778	754	962	398	810	638	101	75.0	51.0	27.0	12.0	MAX.
MIN.	5.7	7.6	115	118	103	213	104	22.0	22.0	14.0	8.4	3.4	MIN.
AC. FT.	952	16052	18145	24355	10461	28497	14598	3987	2140	1285	802	504	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- - 1 AND 2

WATER YEAR SUMMARY												TOTAL	
MEAN		MAXIMUM				MINIMUM						ACRE FEET	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	DISCHARGE	GAGE HT.	MO.	DAY	TIME			
168.2		1040	9.54	01	16	0.0	3.11	09	30	1500		121777	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
39 43 38	121 51 43	SE28 22N 1E				JAN 56-DATE	JAN 56-DATE	1956		167.88	USED
Station located 50 ft. above Rose Avenue Highway bridge, immediately W of Chico. Tributary to Sacramento River. Flow affected by upstream diversion.											



TABLE B-5 (Cont.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO.		STATION NAME	
1974		A00615		LINDO CHANNEL NEAR CHICO	

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	1,430	132	7.6	1,700	1,620 *	0.0	0.0	0.0	0.0	0.0	1
2	0.0	0.0*	368	96	2.3	981	1,050	0.0*	0.0	0.0	0.0	0.0	2
3	0.0	0.0	179	77	0.0	428	571	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	119	63	0.0	195	360	0.0	0.0	0.0	0.0	0.0*	4
5	0.0	3.7	86	59	0.0	99 *	256	0.0	0.0	0.0	0.0	0.0	5
6	0.0	3.1	67	56	0.0	57	201	0.0	0.0*	0.0	0.0*	0.0	6
7	0.0	4.8	54	48	0.0	94	146	0.0	0.0	0.0	0.0	0.0	7
8	0.0	13	47	40	0.0	62	112	0.0	0.0	0.7	0.0	0.0	8
9	0.0	90	39	35	0.0	39	96	0.0	0.0	0.0	0.0	0.0	9
10	0.0	435	34	31	0.0	26	72	0.0*	0.0	0.0	0.0	0.0	10
11	0.0	1,740 *	38	30	0.0	185	49	0.0	0.0	0.0	0.0	0.0	11
12	0.0	1,470 *	34	53	0.1	459	40	0.0	0.0	0.0	0.0	0.0	12
13	0.0	479	46 *	130	0.0	276 *	33	0.0	0.0	0.0	0.0	0.0	13
14	0.0	264	48	304	0.0	147	28	0.0	0.0	0.0	0.0	0.0	14
15	0.0	147	41	2,570	0.0	82	2*	0.0	0.0	0.0	0.0	0.0	15
16	0.0	824	36	2,470	5.4	48	21	0.0*	0.0	0.0	0.0	0.0	16
17	0.0	1,050	55	1,830	0.8	30	18	0.0	0.0	0.0	0.0	0.0	17
18	0.0	1,060	57	1,000	0.8	17	15	0.0	0.0	0.0	0.0	0.0	18
19	0.0*	438	51	683	31	9.0	14	0.0	0.0	0.0	0.0	0.0	19
20	0.0	184	44	386	17	3.5	11	0.0	0.0	0.0	0.0	0.0	20
21	0.0	113	137	213	2.2*	1.2	8.4	0.0	0.0	0.0	0.0	0.0	21
22	5.0	85	238	121	0.6	0.3	6.2	0.0	0.0	0.0	0.0	0.0	22
23	0.0	60	139	66	0.5	0.0	11	0.0	0.0	0.0	0.0	0.0	23
24	0.0	47	98	41 *	0.5	0.0	15	2.9	0.0	0.0	0.0	0.0	24
25	0.0	36	76	31	0.5	3.1	9.8	17	0.0	0.0	0.0	0.0	25
26	0.0	30	71	20	0.5	1.1	4.3	20	0.0	0.0	0.0	0.0	26
27	0.0	22	125	12	0.5	68	0.0	23	0.0	0.0	0.0	0.0	27
28	0.0	15	272	5.3	425	448	0.0	17	0.0	0.0	0.0	0.0	28
29	0.0	16	338	3.0		2,110	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	189	272	2.3		2,380 *	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0		181	12		1,540		0.0		0.0	0.0	0.0	31
MEAN	0.2	294	155	342	17.7	370	159	2.6	0.0	0.0	0.0	0.0	MEAN
MAX.	5.0	1,740	1,430	2,570	425	2,380	1,620	23.0	0.0	0.7	0.0	0.0	MAX.
MIN.	0.0	0.0	34.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.	0	17491	9560	21064	982	22788	9504	158		1			AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- 1 AMP

WATER YEAR SUMMARY												
MEAN		MAXIMUM					MINIMUM				TOTAL	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
112.7		3840	9.77	03	29	1830	0.0	0.47	10	01	0000	81560

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
39 44 57	121 52 06	NE21 22N 1E	✓ 3840	9.77	3/29/74	DEC 72-DATE	DEC 72-DATE	1972		170.00	USED
Station located right abutment, Cossick Ave. bridge, 2-1/4 mi. NW of Chico Post Office. Tributary to Sacramento River via Big Chico Creek. Flow affected by upstream diversion. Station A00600 was destroyed on December 5, 1972. Station A00615 was constructed about 3-1/4 miles upstream on December 20, 1972.											



TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02570	SACRAMENTO RIVER AT ORD FERRY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	9,140	7,860	77,400	48,900	52,700	37,700	112,000	14,000	14,600	11,400	9,980	11,400	1
2	9,070	7,830	76,500	45,400	50,700	41,300	113,000	13,400	14,400	11,300	10,000	11,500	2
3	9,080	7,850	49,100	42,700	43,900	33,600	108,000	12,900	14,400	11,100	9,970	11,600	3
4	9,060	7,850	47,300	36,600	41,200	27,700	95,600	12,300	14,300	10,800	10,000	11,500	4
5	9,070	7,940	50,400	33,100	39,100	23,400	66,600	11,900	13,800	10,800	10,100	11,600	5
6	8,340	8,120	47,400	34,100	34,500	22,200	54,500	12,400	13,700	10,700	10,100	11,600	6
7	8,520	9,540	46,700	34,200	31,000	29,700	49,900	17,000	13,500	10,900	10,100	11,700	7
8	9,220	13,100	45,200	33,500	28,200	49,200	45,600	18,100	13,400	11,200	10,300	11,800	8
9	8,990	11,900	39,800	30,100	26,800	33,600	45,200	18,000	13,300	11,700	10,600	11,900	9
10	8,820	19,100	33,800	26,900	22,400	29,300	45,200	18,400	13,100	12,100	10,900	12,000	10
11	8,730	41,700	32,100	26,700	19,600	27,400	43,400	18,300	13,000	11,700	11,000	11,800	11
12	8,710	65,200	34,800	28,900	18,700	31,200	42,300	18,200	12,900	11,300	11,100	11,200	12
13	8,670	52,800	34,000	35,200	24,200	26,900	41,500	18,100	12,600	10,600	11,100	11,200	13
14	8,630	43,000	34,700	39,600	24,000	23,400	40,800	17,200	12,500	10,700	11,000	11,400	14
15	8,630	38,500	31,400	67,200	23,800	22,800	36,900	15,200	12,500	10,700	11,100	11,400	15
16	7,820	42,500	29,600	107,000	23,400	35,900	33,100	15,000	12,400	10,600	11,000	11,600	16
17	7,470	53,300	29,500	120,000	22,700	38,400	32,100	14,900	12,500	10,500	11,000	11,500	17
18	7,330	61,000	31,800	108,000	21,500	38,900	31,600	15,000	12,400	10,500	11,100	10,600	18
19	7,320	64,300	30,200	102,000	24,100	38,000	30,400	15,100	12,300	10,500	11,100	10,100	19
20	7,330	44,200	29,300	102,000	28,100	37,300	23,000	14,800	12,400	10,400	11,100	9,290	20
21	7,310	24,000	34,400	95,400	23,200	36,500	18,200	14,200	12,500	10,300	11,100	9,110	21
22	7,540	41,300	61,500	95,300	22,400	35,700	15,800	13,600	12,200	10,400	11,100	9,070	22
23	8,360	48,000	46,100	90,000	21,700	31,800	15,000	13,500	12,100	10,300	11,100	9,020	23
24	8,740	46,400	42,100	85,200	21,000	23,400	15,100	13,400	12,000	10,200	11,100	8,940	24
25	8,280	45,700	39,400	82,400	19,800	19,000	15,600	13,700	11,900	10,100	11,200	8,810	25
26	7,900	44,700	37,900	79,800	18,600	18,000	15,400	14,100	11,700	10,000	11,100	8,840	26
27	7,950	40,300	38,400	71,800	17,400	18,900	14,700	14,300	11,500	10,100	11,100	8,850	27
28	7,940	35,800	48,200	68,100	16,800	21,800	18,300	14,400	11,400	10,100	11,100	8,780	28
29	7,880	35,200	59,200	63,500		32,700	19,400	14,600	11,400	10,100	11,200	8,780	29
30	7,830	39,600	74,100	61,700		87,800	18,000	14,900	11,400	10,000	11,300	8,830	30
31	7,830		55,400	54,500		114,000		14,700		10,000	11,400		31
MEAN	8,306	33,619	44,119	62,896	27,196	35,080	41,880	15,019	12,736	10,680	10,821	10,524	MEAN
MAX.	9,220	65,200	77,400	120,000	52,700	114,000	113,000	18,400	14,600	12,100	11,400	12,000	MAX.
MIN.	7,310	7,830	29,300	26,700	16,800	18,000	14,700	11,900	11,400	10,000	9,970	8,780	MIN.
AC. FT.	510763	2000508	2712792	3867370	1510412	2157024	2492032	923504	757864	656727	665355	626221	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
- DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
# - FLOOD

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 26079.4	DISCHARGE 120000 GAGE HT. 68.14 MO. DAY TIME 01 17 0700	DISCHARGE 7160.0 GAGE HT. 46.43 MO. DAY TIME 10 20 1315	ACRE FEET 18880591

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 37 39	121 59 28	SE32 21N 1W	138000	69.8	1/24/70	JAN 48-DATE	21-MAY 27 #	1937	1960	0.00	USED
							FEB 37-May 37				
							OCT 37-MAY 39	1960		50.00	USED
							NOV 39-MAY 41 #				
							NOV 41-DATE				
Station located 0.1 mi. below Ord Ferry. Records of flows in excess of 70,000 cubic feet per second are not reliable due to an undetermined amount of water by-passing the station via Butte Basin. Flow regulated by Shasta Lake since December 30, 1943. Approximately 980,000 acre-feet diverted from the river between Keswick and Ord Ferry in addition to diversions from the tributaries. Transbasin diversions from the Trinity River to Whiskeytown Reservoir via Judge Francis Carr Powerplant began in April 1963. Drainage area, excluding Goose Lake Basin, is approximately 12,480 sq. mi.											

# - Flood season only.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02986	MOULTON WEIR SPILL TO BUTTE BASIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0*	396	0.2	0.0	0.0	19,800	0.0*	0.0	0.0	0.0	0.0	1
2	0.0	0.0	5,680	0.0*	0.0	0.0	18,800	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	1,370	0.0	0.0	0.0	19,500	0.0	0.0	0.0*	0.0	0.0*	3
4	0.0*	0.0	0.0	0.0	0.0	0.0*	15,300	0.0	0.0	0.0	0.0	0.0	4
5	0.0	0.0	0.0	0.0	0.0	0.0	7,870	0.0	0.0*	0.0	0.0*	0.0	5
6	0.0	0.0	0.0	0.0	0.0*	0.0	712	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	5,200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	19,300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	14	0.0	25,200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18
19	0.0	845	0.0	18,400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	233	0.0	16,200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0*	0.0	12,300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.3	9,280	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	2.9	7,970	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	6,300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	5,210	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	0.0	0.0	4,550	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	3,260	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	1,600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	737	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	0.0	1,650	195	0.0	1,260	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	1,580	15	0.0	13,200	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	0.0	38.3	344	4,378	0.0	466	2,732	0.0	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	845	5,680	25,200	0.0	13,200	19,800	0.0	0.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.		2280	21182	269194		28681	162609						AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
# - FLOOD SEASON ONLY

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
668.5	26800	0.0	483945
	GAGE HT.	GAGE HT.	
	82.54	74.00	
	MO. DAY TIME	MO. DAY TIME	
	01 18 0745	10 01 0000	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
39 20 18	122 01 18	SEL2 17N 2W				JAN 40-DATE #	JAN 35-DATE #	1935		0.00 USED
Station located west of south end of weir, 4.6 mi. S of Princeton. Elevation of weir crest is 76.75 ft. USED datum; length of crest is 500 feet.										
# - Flood season only.										

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02981	COLUSA WEIR SPILL TO BUTTE BASIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0*	12,900	19,500	15,000 *	342	57,700 *	0.0*	0.0	0.0	0.0	0.0	1
2	0.0	0.0	25,800	13,500	15,600	8,320	56,900	0.0	0.0	0.0	0.0	0.0	2
3	0.0	0.0	21,900	10,800	11,100	3,850	55,800 *	0.0	0.0	0.0*	0.0	0.0*	3
4	0.0*	0.0	13,400	7,160	6,960 *	1,430	51,400	0.0	0.0	0.0	0.0	0.0	4
5	0.0	0.0	13,100	2,360	5,160	0.0	43,200 *	0.0	0.0*	0.0	0.0*	0.0	5
6	0.0	0.0	12,900	1,590	3,040 *	0.0	28,100	0.0	0.0	0.0	0.0	0.0	6
7	0.0	0.0	11,700	1,910	603	0.0	21,300	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	10,800	1,750	0.2	11,600	15,000 *	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	8,770	646	0.0	7,610	12,500	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	4,450	1.0	0.0	903	12,700 *	0.0	0.0	0.0	0.0	0.0	10
11	0.0	0.0*	1,730	0.0	0.0	0.0	11,400	0.0	0.0	0.0	0.0	0.0	11
12	0.0	9,970	1,790	0.0	0.0	73	9,650 *	0.0	0.0	0.0	0.0	0.0	12
13	0.0	17,600 *	2,100	248	0.0	123	8,630	0.0	0.0	0.0	0.0	0.0	13
14	0.0	12,700	2,380	2,030	0.0	0.0	7,860	0.0	0.0	0.0	0.0	0.0	14
15	0.0	6,670	1,280	8,680	0.0	0.0	6,380	0.0	0.0	0.0	0.0	0.0	15
16	0.0	5,600 *	78	31,200 *	0.0	527	2,790 *	0.0	0.0	0.0	0.0	0.0	16
17	0.0	11,000	0.0	50,800 *	0.0	4,410	1,380	0.0	0.0	0.0	0.0	0.0	17
18	0.0	17,000	37	59,400 *	0.0	5,420 *	756	0.0	0.0	0.0	0.0	0.0	18
19	0.0	20,800	101	55,200	0.0	5,500	310	0.0	0.0	0.0	0.0	0.0	19
20	0.0	19,100 *	0.0	51,600	0.0	5,020 *	4.6	0.0	0.0	0.0	0.0	0.0	20
21	0.0	4,460	0.0	46,900	0.0	4,130	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	1,420	11,800	42,100 *	0.0	3,580	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	9,600	20,500	40,300 *	0.0	2,540	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	12,000	11,000	37,800	0.0	106	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	11,200	7,550	35,600 *	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25
26	0.0	10,700	5,550	34,200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	9,400	4,290 *	32,200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	5,180	7,920	28,400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	3,380	16,700	25,700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	3,560	26,700	23,200 *	0.0	18,000	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0		29,400	20,900		45,700 *		0.0		0.0	0.0		31
MEAN	0.0	6,378	9,246	22,118	2,052	4,167	13,458	0.0	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	20,800	29,400	59,400	15,600	45,700	57,700	0.0	0.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.		379517	568514	1360016	113977	256233	800847						AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 \*\* - E AND \*

MEAN	MAXIMUM					MINIMUM				
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME
4805.6	60500	68.58	01	18	1015	0.0	61.00	10	01	0000

TOTAL
ACRE FEET
3479103

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
39 14 12	121 59 38	SEL7 16N 1W		70.6	3/1/40	JAN 40-DATE #	JAN 35-DATE #	1935		0.00
Station located at north end of weir, 2.0 mi. N of Colusa. Elevation of weir crest is 61.80 ft. USED datum; length of crest is 1,650 feet.										
# - Flood season only.										

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO.	STATION NAME										
1974		A04910	LITTLE CHICO CREEK DIVERSION NEAR CHICO										
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	30	0.0	0.0*	2.9	58 *	0.0	0.0	0.0	0.0	0.0	1
2	0.0*	0.0*	0.0	0.0	0.0	0.0	1.1	0.0*	0.0	0.0*	0.0	0.0	2
3	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3
4	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	4
5	0.0	0.0	0.0	0.0	0.0	0.0*	0.0*	0.0	0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0*	0.0	6
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
11	0.0	229	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11
12	0.0	176	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	12
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	13
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14
15	0.0	0.0	0.0	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15
16	0.0	0.0	0.0	96	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	16
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17
18	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	18
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19
20	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20
21	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0*	0.0	0.0	0.0	25
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27
28	0.0	0.0	0.0	0.0	39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28
29	0.0	0.0	0.0	0.0	0.0	900	0.0	0.0	0.0	0.0	0.0	0.0	29
30	0.0	25	0.0	0.0	0.0	442 *	0.0	0.0	0.0	0.0	0.0	0.0	30
31	0.0	0.0	0.0	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	31
MEAN	0.0	14.3	1.0	3.6	1.4	44.0	2.0	0.0	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	229	30.0	96.0	39.0	900	58.0	0.0	0.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.		853	60	224	77	2705	117						AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- E AND \*

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL	
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
5.6	2450	3.99	03	29	2015	0.0	0.01	10	01	0000	4036	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
			2450	3.99	3/29/74	JAN 59-DATE						
See Little Chico Creek near Chico for records of stage and location. This is flow diverted from Little Chico Creek, into Butte Creek during periods of high water.												

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A04265	BUTTE CREEK NEAR DURHAM

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	34	12	3,480	1,190	718	4,080	4,950	581	252	46	53	46	1
2	38	9.5	1,570	988	647	2,830	3,580	575	247	74	52	41	2
3	35	8.1	1,110	910	594	1,770	2,430	563	252	72	53	38	3
4	36	6.5	930	842	566	1,320	1,810	557	247	81	53	33	4
5	33	7.3	811	781	534	1,120	1,490	515	229	88	54	33	5
6	43	62	737	744	522	1,020	1,280	500	217	83	53	34	6
7	124	316	693	691	553	1,170	1,130	500	199	81	41	32	7
8	160	204	662	644	539	1,100	1,040	520	172	148	43	30	8
9	116	417	618	607	526	963	1,020	535	196	264	51	30	9
10	62	1,540	591	579	509	840	906	522	241	164	48	37	10
11	58	5,780	620	569	496	1,340	847	507	208	126	56	42	11
12	53	5,830	599	833	496	1,820	817	505	128	110	61	42	12
13	49	2,120	693	1,250	483	1,430	778	479	119	96	47	45	13
14	46	1,330	652	1,850	469	1,200	750	441	103	91	39	37	14
15	40	888	596	6,150	467	1,110	731	430	92	79	40	50	15
16	36	2,460	567	6,370	532	1,050	726	400	86	67	44	45	16
17	34	2,750	758	6,050	510	1,020	722	384	95	66	39	106	17
18	48	2,540	742	4,580	500	990	726	356	77	69	34	156	18
19	45	1,470	650	4,220	878	945	697	309	98	69	34	148	19
20	42	1,100	599	2,920	717	897	672	288	115	65	35	140	20
21	45	915	1,060	2,170	626	896	655	263	83	71	34	161	21
22	113	869	1,390	1,670	594	923	658	247	82	76	34	155	22
23	398	758	962	1,400	567	910	695	237	75	73	37	131	23
24	162	693	796	1,200	553	898	684	236	38	60	40	83	24
25	87	633	732	1,070	549	949	643	255	29	50	46	76	25
26	58	592	728	959	563	1,110	615	267	24	54	37	77	26
27	42	548	1,280	861	571	1,900	592	304	20	59	51	81	27
28	31	521	1,970	791	1,670	2,540	576	325	16	54	52	79	28
29	26	526	2,370	734		7,070	559	312	14	53	50	80	29
30	20	1,370	1,860	650		10,300	559	293	13	54	49	81	30
31	16		1,410	610		4,720		266		55	58		31
MEAN	68.7	1,209	1,039	1,770	605	1,942	1,111	402	125	83.8	45.7	72.4	MEAN
MAX.	398	5,830	3,480	6,370	1,670	10,300	4,950	581	252	264	61.0	161	MAX.
MIN.	16.0	6.5	567	569	467	840	559	236	13.0	46.0	34.0	30.0	MIN.
AC. FT.	4225	71951	63939	108859	33618	119466	66125	24738	7472	5153	2813	4306	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - - 5 AND -

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
708.1	14700	11.12	03	29	2215	3.5	2.04	07	01	0945	512664

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 40 37	121 46 38	NW17 21N 2E	21300 E	14.55	12/22/64	JAN 58-DATE	JAN 58-DATE	1958		181.01	USED
Station located 0.1 mi. below Ord-Chico Highway bridge, 2.6 mi. NE of Durham. Tributary to Butte Slough. Flow affected at times by large upstream diversions and imports from West Branch Feather River.											

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

TABLE B-5 (Cont.)													
DAILY MEAN DISCHARGE													
(IN CUBIC FEET PER SECOND)													
WATER YEAR													
STATION NO.													
STATION NAME													
1974													
A04280													
LITTLE CHICO CREEK NEAR CHICO													
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	5.1	454	116	76	514	706	19	13	2.3	0.3	2.3	1
2	0.0	4.1	178	94	59	269	458	19	12	2.2	0.3	1.3	2
3	0.0	4.8	119	82	53	187	297	19	13	1.9	0.3	1.3	3
4	0.0	5.4	92	73	49	136	213	18	13	1.8	0.2	1.4	4
5	0.0	7.0	76	67	46	113	167	17	13	1.6	0.3	0.9	5
6	0.1	22	63	64	43	101	135	16	12	1.3	0.4	0.4	6
7	6.6	68	55	60	40	196	111	16	13	1.4	0.4	0.3	7
8	5.5	38	48	54	37	150	95	15	12	8.3	0.3	0.1	8
9	3.3	124	43	48	35	110	96	14	12	6.7*	0.3	0.5	9
10	1.6	191	41	45	33	95	76	14	12	4.0	0.2	0.1	10
11	1.1	793	46	46	32	255	64	13	12	3.1	0.4	0.3	11
12	1.1	572	40	129	34	240	57	14	13	2.6	0.6	0.0	12
13	1.0	226	67	110	34	168	52	14	9.2	2.2	0.7*	0.0	13
14	0.9	146	50	278	30	131	46	14	4.6	2.0	0.8	0.0	14
15	0.9	113	43	668	28	109	42	14	4.2	1.8	0.6	0.1	15
16	0.9	447	40	724	52	94	40	14	4.4	1.5	0.7	0.1	16
17	0.6	369	78	481	35	80	36	15	5.3	1.5	0.8	0.2	17
18	0.7	270	55	496	33	70	35	15	4.8	1.6	0.6	0.1	18
19	0.8*	161	48	336	118	62	34	15	5.9	1.5	0.6	0.3	19
20	0.8	138	44	245	69	54	31	14	6.2	1.2	0.9	0.5	20
21	1.3	109	252	184	58	49	28	15	4.8	1.2	0.8	0.2	21
22	9.3	118	233	145	50	45	28	15	4.4	1.0	0.8	0.4	22
23	25	96	141	123	44	41	31	14	4.0	1.0	0.6	0.5	23
24	9.9	86	105	106	41	39	33	14	3.9	0.9	0.5	0.4	24
25	0.4	74	83	93	38	42	32	14	3.7*	0.8	0.3	0.1	25
26	2.3	66	95	81	37	58	27	14	3.6	0.7	0.4	0.3	26
27	2.4	57	223	71	36	125	23	13	3.4	0.4	0.3	0.7	27
28	2.3	51	277	65	407	163	22	13	3.3	0.4	0.7	0.4	28
29	2.3	51	226	59		931	19	13	2.6	0.4	1.3	0.4	29
30	4.1	281	174	54		1010	18	13	2.4	0.4	1.8	0.4	30
31	5.8		139	72		546		13		0.3	2.4		31
MEAN	2.9	156	117	170	58.8	199	101	14.8	7.7	1.9	0.6	0.5	MEAN
MAX.	25.0	793	454	724	407	1010	706	19.0	13.0	8.3	2.4	2.3	MAX.
MIN.	0.0	4.1	40.0	45.0	28.0	39.0	18.0	13.0	2.4	0.3	0.2	0.0	MIN.
AC. FT.	181	9309	7196	10451	3267	12264	6054	912	458	115	39	28	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- E AND \*

WATER YEAR SUMMARY														TOTAL	
MEAN		MAXIMUM						MINIMUM						ACRE FEET	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME		DISCHARGE	GAGE HT.	MO.	DAY	TIME			
69.4		1480	5.79	03	29	2030		0.0	0.02	10	01	0000		50273	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 44 02	121 46 23	NE29 22N 2E	1790	7.17	12/21/64	JAN 59-DATE	DEC 58-DATE	1958		296.00	USED
Station located above diversion dam 500 feet S of Stilson Road, 3.6 mi. E of Chico. Tributary to Sacramento River. During periods of high water, flow is diverted via Little Chico Creek Diversion, into Butte Creek. Discharge listed does not include this diversion. Drainage area is 25.4 sq. mi.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02984	CHEROKEE CANAL NEAR RICHVALE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	12	23	2,120	226	330	2,070	1,430	27	42	25	33	53	1
2	11	22	534	175	163	830	667	18	35	32	47	49	2
3	10	22	286	157	136	401	329	12	39	37	54	48	3
4	12	22	196	146	122	213	208	15	35	39	45	37	4
5	15	23	162	139	112	161	155	25	30	40	41	30	5
6	14	33	143	137	103	138	126	44	23	46	38	29	6
7	16	104	129	159	99	403	101	43	18	48	38	28	7
8	19	212	121	136	96	633	87	46	15	45	42	30	8
9	20	79	112	118	93	193	106	48	14	69	47	22	9
10	20	840	106	108	91	160	96	60	16	65	46	20	10
11	20	2,210	121	105	90	625	66	53	27	60	44	17	11
12	25	2,050	145	691	89	887	53	45	37	58	44	6.7	12
13	20	967	185	445	123	294	45	42	28	60	42	1.1	13
14	21	901	160	1,100	98	182	39	41	15	56	43	1.1	14
15	21	302	121	2,430	88	149	35	52	14	51	42	1.1	15
16	21	1,220	109	1,790	218	128	32	41	22	47	45	1.1	16
17	21	1,120	435	1,760	142	131	29	33	28	45	44	1.2	17
18	20	971	252	1,520	103	122	27	29	32	41	39	1.2	18
19	16	426	147	902	442	102	25	24	34	48	38	1.1	19
20	15	260	124	521	186	91	22	36	40	44	38	1.1	20
21	9.1	345	612	369	108	82	19	56	44	39	37	1.4	21
22	18	204	1,020	276	92	77	16	61	42	47	32	1.8	22
23	39	191	339	236	75	74	17	33	41	57	23	2.0	23
24	35	185	284	199	68	69	24	34	40	55	23	2.7	24
25	32	158	191	177	60	69	18	45	25	55	28	4.2	25
26	31	126	177	161	58	87	14	43	8.5	53	44	2.5	26
27	30	108	1,340	144	56	152	16	37	28	53	40	2.2	27
28	30	95	1,440	136	780	247	22	27	42	52	39	1.6	28
29	26	92	673	127		1,270	18	26	30	52	45	1.7	29
30	22	629	400	120		2,030	23	27	26	54	49	1.6	30
31	22		275	135		658		32		41	52		31
MEAN	20.7	464	401	478	150	410	128	37.3	29.0	48.8	40.7	13.2	MEAN
MAX.	39.0	2,210	2,120	2,430	780	2,070	1,430	61.0	44.0	69.0	54.0	53.0	MAX.
MIN.	9.1	22.0	106	105	56.0	69.0	14.0	12.0	8.5	25.0	23.0	1.1	MIN.
AC. FT.	1276	27650	24712	29445	8372	25246	7666	2291	1727	3003	2503	786	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 • - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - - 1 AND •

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
186.0	3810	1.1	134676
	GAGE HT. MO. DAY TIME	GAGE HT. MO. DAY TIME	
	10.48 01 15 0630	2.44 09 12 1700	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
39 27 53	121 44 37	NW34 19N 2E	15200 E	13.80	10/13/62	JUL 60-DATE	JUL 60-DATE	1960		USGS
Station located at Butte City Road bridge, 2.1 miles S of Richvale. Backwater from Cherokee Dam weir, 1.05 miles below station, at times affects the stage-discharge relationship.										

TABLE B-5 (CONT.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02967	BUTTE SLOUGH AT OUTFALL GATES

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	152	311	0.0	0.0	0.0	0.0	0.0	57	280	112	280	379	1
2	152	286	0.0	0.0	0.0	0.0	0.0	316	298	41	274	391	2
3	152	286	0.0	0.0	0.0	0.0	0.0	292	304	36	292	413	3
4	159	262	0.0	0.0	0.0	0.0	0.0	280	280	112	304	407	4
5	166	255	0.0	0.0	0.0	0.0	0.0	242	323	159	304	423	5
6	188	262	0.0	0.0	0.0	0.0	0.0	223	352	174	304	445	6
7	202	255	0.0	0.0	0.0	0.0	0.0	12	346	174	286	455	7
8	152	94	0.0	0.0	0.0	0.0	0.0	0.0	304	195	280	476	8
9	144	37	0.0	0.0	0.0	0.0	0.0	0.0	242	316	280	476	9
10	174	158	0.0	0.0	0.0	0.0	0.0	0.0	94	340	267	492	10
11	181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	413	262	502	11
12	181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	502	255	532	12
13	181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	512	286	542	13
14	166	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	591	311	517	14
15	166	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	542	304	476	15
16	188	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	507	323	465	16
17	223	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	476	323	429	17
18	223	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	455	346	413	18
19	223	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	423	340	418	19
20	223	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47	396	352	407	20
21	230	0.0	0.0	0.0	0.0	0.0	0.0	0.0	174	374	369	407	21
22	230	0.0	0.0	0.0	0.0	0.0	62	154	209	352	369 *	423	22
23	255	0.0	0.0	0.0	0.0	0.0	352	223	248	323	369	413	23
24	255	0.0	0.0	0.0	0.0	0.0	402	267	230	286	362	352	24
25	286	0.0	0.0	0.0	0.0	0.0	292	304	230	286	385	340	25
26	334	0.0	0.0	0.0	0.0	0.0	230	286	223	292	385	298	26
27	334	0.0	0.0	0.0	0.0	0.0	286	280	216	286	385	292	27
28	340	0.0	0.0	0.0	0.0	0.0	190	286	159	274	385	262	28
29	352	0.0	0.0	0.0	0.0	0.0	0.0	280	152	274	402	267	29
30	352	0.0	0.0	0.0	0.0	0.0	0.0	255	128	280	402	255	30
31	328	0.0	0.0	0.0	0.0	0.0	0.0	255		286	396		31
MEAN	223	73.5	0.0	0.0	0.0	0.0	60.5	129	161	316	328	412	MEAN
MAX.	362	311	0.0	0.0	0.0	0.0	402	316	352	591	402	542	MAX.
MIN.	144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36	255	255	MIN.
AC. FT.	13690	4376	0.0	0.0	0.0	0.0	3598	8043	9598	19420	20200	24530	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

MEAN DISCHARGE
137

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
NA				

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME

TOTAL ACRE FEET
103500

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
39 11 44	121 56 04	NE35 16N 1W				JUN 24-OCT 38 8	JUN 24-DATE			0.00 USED
Station located 4.0 mi. E of Colusa, 3.7 mi. N of Meridian. Tributary to Sacramento River. Flow regulated by gravity culverts. During the summer months these flows, together with the flow of Butte Slough near Meridian and Wadsworth Canal near Sutter are made up almost entirely of return water from lands irrigated by Feather River diversions.										
8 - Irrigation season only.										



**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02965	RECLAMATION DISTRICT 70 DRAINAGE TO SACRAMENTO RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	3.7	54	60	56	51	49	7.0	25	24	37	59	1
2	16	3.7	58	60	67	53	50	13	23	25	37	76	2
3	0.0	7.4	56	60	67	58	54	0.0	25	11	66	84	3
4	0.0	7.4	58	87	40	62	54	0.0	78	24	51	107	4
5	0.0	7.4	37	76	53	68	54	0.0	48	38	38	107	5
6	0.0	7.4	30	69	62	44	53	11	38	38	38	123	6
7	15	7.4	30	47	62	54	29	14	38	25	38	123	7
8	7.4	0.0	30	41	62	64	53	0.0	37	42	38	97	8
9	0.0	0.0	30	62	40	60	39	14	37	39	69	85	9
10	0.0	0.0	31	62	32	62	53	38	13	88	78	64	10
11	0.0	0.0	43	64	34	62	51	79	25	12	56	60	11
12	3.7	0.0	56	64	51	64	53	50	38	0.0	37	68	12
13	3.7	21	39	64	37	62	39	96	28	23	53	39	13
14	3.7	30	31	62	34	40	30	66	19	15	56	28	14
15	3.7	30	31	82	34	33	31	29	31	25	56	28	15
16	3.7	30	31	104	45	56	48	0.0	17	38	53	28	16
17	19	30	31	122	44	62	31	0.0	37	37	53	28	17
18	19	50	32	117	34	60	31	0.0	37	37	70	28	18
19	11	58	31	126	34	33	31	0.0	37	37	61	28	19
20	7.4	35	31	120	34	22	31	0.0	37	37	54	28	20
21	7.4	29	32	104	33	31	29	0.0	37	37	58	7.8	21
22	7.4	32	55	94	34	31	26	48	46	37	54	0.0	22
23	0.0	30	60	88	34	31	27	59	24	37	54	0.0	23
24	0.0	29	30	67	35	12	46	58	48	37	60	0.0	24
25	0.0	20	41	67	35	24	57	25	37	37	55	0.0	25
26	0.0	0.0	31	67	36	60	54	53	38	37	54	0.0	26
27	0.0	23	67	67	36	47	76	0.0	37	12	70	0.0	27
28	0.0	19	97	67	37	36	11	54	19	40	70	20	28
29	3.7	23	67	67	35	35	0.0	0.0	37	38	48	7.8	29
30	0.0	31	51	67	32	32	0.0	12	37	37	67	0.0	30
31	0.0		96	39	41	41		11		37	109		31
MEAN	4.3	18.8	45.1	75.5	42.9	46.7	39.7	23.8	34.0	32.3	56.1	44.0	MEAN
MAX.	19	58	97	126	67	68	76	96	78	88	109	123	MAX.
MIN.	0.0	0.0	30	39	32	12	0.0	0.0	13	0.0	37	0.0	MIN.
AC. FT.	262	1119	2771	4647	2384	2874	2360	1461	2039	1985	3447	2625	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
38.6

MAXIMUM
DISCHARGE
NA

MINIMUM
DISCHARGE

TOTAL
ACRE FEET
27970

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
39 04 08	121 51 43	NEL6 14N 1E				MAY 24-OCT 38 8				
						JAN 39-DATE				
Plant located 1.7 mi. E of Grimes. This is drainage returned by pumping and gravity. Plant also discharges additional unmeasured flows to irrigation canals.										
B - Irrigation season only.										

TABLE B-5 (CONT.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02960	TISDALE WEIR SPILL TO SUTTER BYPASS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	11800	13600	12900	196	21800						1
2		0.0	19100	13100	12600	5940	20400						2
3		0.0	18700	11900	11500	6980	17300						3
4		0.0	13400	10600	9780	6140	17500 *						4
5		0.0	11700	8590	8870	3300	17100						5
6		0.0	12100	7690	8020	1140	16900						6
7		0.0	11700	7790	6460	369	16900						7
8		0.0	11500	7580	4980	6250	15100						8
9		0.0	11400	6910	3670	8020	13400						9
10		0.0	9280	5290	2260	5740	12800						10
11	N	37	7360	3820	98	4350	12000	N	N	N	N	N	11
12		7050	6990	3420	0.0	4050	11000						12
13	O	10600 *	7410	4590	0.0	4840	10200	O	O	O	O	O	13
14		12300	7430	6740	28	3100	9640						14
15		11100	6950	8870	366	1130	9070						15
16	F	10600	5680	15500	368	1910	7500	F	F	F	F	F	16
17		11600	4800	18900	109	6080	6250						17
18	L	13300	4880	20600	0.0	6850	5620	L	L	L	L	L	18
19		14900	5440	19700	0.0	6940	5260						19
20	O	15000	4830	19100	1560	7160	3980	O	O	O	O	O	20
21	W	11300	4500	19200	2230	7360 *	535	W	W	W	W	W	21
22		5570	8110	17700 *	265	7170	0.0						22
23		11300	12400	16900	0.0	6850	0.0						23
24		12000	11200	17000	0.0	4830	0.0						24
25		11900	9740	16600	0.0	1110	0.0						25
26		11600	8920	16400	0.0	0.0	0.0						26
27		11600	8450 *	15800	0.0	0.0	0.0						27
28		10100	9320	14800	0.0	0.0	0.0						28
29		8460	12200	14600		0.0	0.0						29
30		8370	13500	14400		6780	0.0						30
31			14700	14300		18000							31
MEAN		6956	9854	12640	3074	4600	8341						MEAN
MAX.		15000	19100	20600	12900	18000	21800						MAX.
MIN.		0.0	4500	3420	0.0	0.0	0.0						MIN.
AC. FT.		413900	605900	777500	170700	282800	496400						AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRES FEET
3795	NA	50.38	2747000
	MO. DAY TIME	MO. DAY TIME	
	1 19 1430		

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 01 36	121 49 16	NE35 14N 1E	25700	53.3	3/1/40	JAN 40-DATE #	JAN 35-DATE #	1935		0.00	USED
Station located west of north end of weir, 5.0 mi. SE of Grimes. See Sacramento River at Tiadale Weir for stage records. Elevation of weir crest is 45.45 feet. USED datum; length of crest is 1,155 feet. Backwater from Sutter Bypass at times affects stage-discharge relationship.											
# - Flood season only.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	AC2933	RECLAMATION DISTRICT 108 DRAINAGE TO SACRAMENTO RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	103	172	160	124	86	117	167	346	276	205	525	1
2	0.0	0.0	387	110	115	82	77	207	459	242	207	465	2
3	82	0.0	120	139	111	106	114	219	356	258	207	338	3
4	0.0	0.0	122	204	107	81	77	244	391	242	249	435	4
5	0.0	0.0	122	205	82	80	77	428	347	208	207	458	5
6	64	0.0	122	285	83	80	0.0	242	313	207	207	458	6
7	0.0	99	117	188	83	88	127	301	401	219	206	403	7
8	0.0	0.0	78	158	83	80	117	297	339	309	207	561	8
9	0.0	51	119	154	80	103	78	286	453	343	197 *	402	9
10	0.0	86	78	145	103	104	80	315	211	347	175	392	10
11	131	0.0	119	123	71	88	80	294	244	335	231	323	11
12	0.0	217	117	122	78	80	80	487	250	341	208	301	12
13	0.0	208	119	229	70	80	0.0	351	307	304	207	277	13
14	88	197	80	153	34	80	102	388	324	438	224	250	14
15	0.0	167	80	208	84	0.0	80	361	298	248	243	253	15
16	0.0	165	28	210	84	87	40	353	280	244	227	74	16
17	0.0	127	129	303	80	105	41	357	245	254	207	212	17
18	0.0	405	116	298	0.0	81	81	383	291	227	362	242	18
19	98	159	80	300	0.0	119	83	425	294	122	238	167	19
20	49	123	172	462	84	0.0	0.0	392	294	96	242	155	20
21	44	117	0.0	163	84	8.0	112	394	272	202	238	149	21
22	0.0	110	0.0	125	84	111	125	439	254	179	238	227	22
23	0.0	81	326	166	73	0.0	86	458	421	179	242	101	23
24	0.0	82	0.0	125	0.0	73	88	437	304	182	246	151	24
25	104	106	177	127	74	113	146	386	304	185	294	117	25
26	0.0	78	165	127	0.0	81	135	510	302	182	217	0.0	26
27	0.0	80	210	127	118	83	134	536	309	190	254	82	27
28	0.0	78	292	127	74	83	163	361	309	179	259	0.0	28
29	0.0	80	256	124	0.0	0.0	139	346	309	179	304	0.0	29
30	0.0	124	219	122	81	81	170	347	466	198	338	0.0	30
31	0.0		125	83	68	68		347		207	309		31
MEAN	21.3	101	137	180	73.7	76.9	93.0	357	323	236	239	250	MEAN
MAX.	131	405	387	462	124	119	170	536	466	438	362	561	MAX.
MIN.	0.0	0.0	0.0	83	0.0	0.0	0.0	167	211	96	175	0.0	MIN.
AC. FT.	1309	6036	8424	11050	4092	4727	5452	21930	19230	14520	14670	14910	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACR. FEET
174	NA										126400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 52 45	121 47 29	NE30 12N 2E				APR 24-OCT 38 B JAN 39-DATE					
Plant located 4.5 mi. E of Robbins. This is drainage returned by pumping.											
B - Irrigation season only.											

TABLE B-5 (CONT.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02955	RECLAMATION DISTRICT 787 DRAINAGE TO SACRAMENTO RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN	1.6	18.4	26.2	32.2	38.6	19.7	22.9	62.9	58.6	54.4	46.7	30.9	MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.	100	1096	1610	1977	2145	1211	1361	3867	3485	3342	2871	1838	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
34.4	NR					NR					24903

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
38 50 47	121 43 46	NE34 12N 2E				MAY 49-DATE				
Plant located 2.1 mi. SW of Robbins. This is drainage returned by pumping. Daily distribution of flows is not available since the plant operates on an automatic float switch.										

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02976	COLUSA BASIN DRAIN AT HIGHWAY 20

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	330	226	1,410	540	433	321	381	219	805	599	868	1,290	1
2	314	214	1,580	451	409	439	352	187	789	561	900	1,300	2
3	277	232	1,390	446	378	269	341	98	750	468	849	1,330	3
4	236	280	925	781	347	182	292	102	684	492	850	1,320	4
5	202	303	678	717	345	153	231	211	577	537	908	1,310	5
6	237	504	588	647	302	144	197	184	559	539	862	1,340	6
7	332	410	518	710	284	215	171	242	447	545	832	1,320	7
8	415	407	464	736	271	599	371	366	326	971	827	1,360	8
9	461	402	411	617	242	388	373	452	141	1,420	892	1,340	9
10	383	482	396	511	230	259	202	503	129	1,520	899	1,350	10
11	362	760	415	484	218	242	312	615	118	1,560	943	1,290	11
12	296	1,280	394	849	208	246	286	699	99	1,460	970	1,150	12
13	278	1,310	419	1,160	205	225	264	798	176	1,350	979	1,160	13
14	271	1,340	430	1,020	198	210	176	903	263	1,260	1,050	1,180	14
15	230	1,120	388	1,340	190	213	101	932	309	1,150	1,090	1,150	15
16	195	993	383	1,510	185	182	129	1,000	331	1,030	1,090	1,110	16
17	174	1,110	377	2,100	179	166	161	996	347	978	1,120	1,060	17
18	176	1,500	358	2,000	170	155	176	1,120	421	964	1,130	962	18
19	196	1,320	321	2,040	173	146	217	1,190	523	934	1,170	899	19
20	199	992	300	1,850	174	152	112	1,150	684	871	1,170	840	20
21	195	821	498	1,560	171	154	59	1,110	744	874	1,120	757	21
22	235	740	1,390	1,250	152	159	99	1,120	704	834	1,150	675	22
23	375	676	1,310	1,030	141	281	100	1,110	666	803	1,170	590	23
24	368	574	933	920	132	443	290	1,120	647	768	1,160	565	24
25	354	513	733	801	132	435	637	1,150	613	798	1,150	515	25
26	335	472	638	694	135	330	786	1,090	573	822	1,120	452	26
27	316	418	838	612	129	256	806	1,060	572	812	1,150	474	27
28	310	354	932	535	138	237	688	982	579	831	1,150	426	28
29	308	347	878	501		302	582	882	580	819	1,150	379	29
30	279	448	753	475		768	324	903	588	823	1,170	332	30
31	247		624	452		677		870		830	1,250		31
MEAN	286	684	699	946	224	288	307	753	491	910	1,036	974	MEAN
MAX.	461	1,500	1,580	2,100	433	768	806	1,190	805	1,560	1,250	1,360	MAX.
MIN.	174	214	300	446	129	144	59.0	98.0	99.0	468	827	332	MIN.
AC. FT.	17625	40756	42986	58193	12438	17748	18280	46342	29244	55979	63747	57969	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- - I AND -

WATER YEAR SUMMARY

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
637.2	2160	47.20	01	17	0800	59.0	37.73	04	16	1030	461308

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
31 11 44	122 03 34	NE34 16N 2W	25400 E	51.93	2/21/58	JUN 24-DEC 40 8 MAY 41-DATE	JUN 24-DEC 40 8 MAY 41-DATE	1957	1957	37.09 0.00	USED
Station located at State Highway 20 bridge, 3.0 mi. W of Colusa.											
8 - Irrigation season only.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	AC2945	COLUSA BASIN DRAIN AT KNIGHTS LANDING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	305	140	0.0	0.0	0.0	0.0	0.0	0.0	728	176	396	993	1
2	304	96	0.0	0.0	0.0	0.0	0.0	493	702	134	472	1020	2
3	264	96	0.0	0.0	0.0	0.0	0.0	186	728	34	513	1070	3
4	243	118	0.0	0.0	0.0	0.0	0.0	0.0	702	28	484	1070	4
5	182	140	0.0	0.0	0.0	0.0	0.0	0.0	634	46	556	1040	5
6	138	267	0.0	0.0	0.0	0.0	0.0	0.0	356	63	581	1060	6
7	210	375	0.0	0.0	0.0	0.0	0.0	0.0	309	38	542	1070	7
8	343	286	0.0	0.0	0.0	0.0	0.0	0.0	186	313	541	1080	8
9	400	221	0.0	0.0	0.0	0.0	0.0	0.0	28	956	562	1120	9
10	346	664	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1070	613	1110	10
11	314	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1050	619	1080	11
12	292	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1070	620	1040	12
13	234	0.0	0.0	0.0	0.0	0.0	0.0	556	0.0	1080	607	992	13
14	211	0.0	0.0	0.0	0.0	0.0	0.0	656	0.0	983	626	966	14
15	191	0.0	0.0	0.0	0.0	0.0	0.0	573	0.0	857	681	961	15
16	145	0.0	0.0	0.0	0.0	0.0	0.0	750	0.0	769	709	939	16
17	100	0.0	0.0	0.0	0.0	0.0	0.0	793	0.0	637	727	897 *	17
18	104	0.0	0.0	0.0	0.0	0.0	0.0	774	0.0	527	753	832	18
19	102	0.0	0.0	0.0	0.0	0.0	0.0	781	33	467	835	779	19
20	102	0.0	0.0	0.0	0.0	0.0	0.0	805	215	417	861	738	20
21	89	0.0	0.0	0.0	0.0	0.0	0.0	798	364	389	816	747	21
22	89	0.0	0.0	0.0	0.0	0.0	0.0	738	367	428	825	706	22
23	552	0.0	0.0	0.0	0.0	0.0	0.0	883	345	348	841	724	23
24	440	0.0	0.0	0.0	0.0	0.0	0.0	880	317	313	847	850	24
25	340	0.0	0.0	0.0	0.0	0.0	0.0	800	224	320	828	604	25
26	298	0.0	0.0	0.0	0.0	0.0	0.0	820	191	323	828	509	26
27	285	0.0	0.0	0.0	0.0	0.0	333	809	167	398	819	434	27
28	266	0.0	0.0	0.0	0.0	0.0	547	802	171	397	831	448	28
29	285	0.0	0.0	0.0	0.0	0.0	270	790	129	396	856	387	29
30	184	0.0	0.0	0.0	0.0	0.0	0.0	738	87	322	890	324	30
31	163	0.0	0.0	0.0	0.0	0.0	0.0	731	0.0	360	964	0.0	31
MEAN	242	80.1	0.0	0.0	0.0	0.0	38.3	492	233	474	698	853	MEAN
MAX.	552	664	0.0	0.0	0.0	0.0	547	883	728	1080	964	1120	MAX.
MIN.	89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28	396	324	MIN.
AC. FT.	14920	4766	0.0	0.0	0.0	0.0	2281	30060	13850	29170	42920	50760	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN DISCHARGE	MAXIMUM	MINIMUM	TOTAL
259	DISCHARGE NA	DISCHARGE NA	ACRE FEET 188730
	GAGE HT.	GAGE HT.	
	MO. DAY TIME	MO. DAY TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
38 47 58	121 43 27	SW14 11N 2E	36.8		2/10/42	MAY 24-OCT 39 8 JAN 40-DATE	MAY 24-OCT 39 8 JAN 40-DATE	1924		USED
Station located at Knights Landing outfall gates, 0.3 mi. W of Knights Landing. Tributary to Sacramento River. Flow regulated by outfall gates.										
8 - Irrigation season only.										

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	AC2950	RECLAMATION DISTRICT 787 DRAINAGE TO COLUSA BASIN DRAIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN	0.0	0.0	0.8	0.1	0.0	0.0	0.0	9.0	0.0	0.0	0.0	4.8	MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.	0.0	0.0	49	7	0.0	0.0	0.0	552	0.0	0.0	0.0	288	AC. FT.

RECORDS SUFFICIENT TO COMPUTE ONLY MONTHLY FLOWS

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
1.2

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
NR				

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
NR				

TOTAL
ACRE FEET
896

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 48 03	121 43 28	NW14 11N 2E				JAN 40-DATE					
Plant located 0.3 mi. W of Knights Landing. This is drainage returned by pumping between Knights Landing outfall gates and Sacramento River. Daily distribution of flows is not available since the plant operates on an automatic float switch.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02930	FREMONT WEIR SPILL TO YOLO BYPASS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	7,820	29,500	21,300	0	86,200						1
2		0	22,100	25,400	18,500	0	135,900						2
3		0	13,500	20,500	15,200	3,520	151,300*						3
4		0	29,100	17,300	12,200	5,680	148,000						4
5		0	24,300	12,700	9,900	2,680	136,400						5
6		0	20,300	10,400	6,240	584	110,800						6
7		0	17,300	6,520	3,010	0	82,000						7
8	N	0	14,800	5,400	1,350	38	57,800	N	N	N	N	N	8
9		0	12,700	4,040	38	1,800	40,100						9
10	O	0	10,700	2,100	0	3,520	30,200	O	O	O	O	O	10
11		0	7,240	300	0	3,310	23,700						11
12		0	3,620	0	0	2,180	14,800						12
13	F	0	1,950	0	0	2,500	10,700	F	F	F	F	F	13
14		225	1,200	0	0	1,950	8,850						14
15	L	7,670	106	1,180	0	400	7,380	L	L	L	L	L	15
16	O	14,200	0	13,900	0	0	5,960	O	O	O	O	O	16
17		19,000	0	40,100	0	0	3,730						17
18	W	30,200	0	103,200	0	375	2,250	W	W	W	W	W	18
19		38,700*	0	148,000*	0	1,350	1,800						19
20		37,300	0	159,600	0	2,100	825						20
21		34,600	0	151,800	0	2,420	2						21
22		23,400	0	133,700	0	2,500	0						22
23		17,000	0	111,800	0	2,420	0						23
24		16,100	275	94,500	0	2,100	0						24
25		16,100	2,420	82,000*	0	731	0						25
26		16,800	3,310	73,300	0	0	0						26
27		14,400	4,520	59,600	0	0	0						27
28		10,500	10,400	50,200	0	0	0						28
29		6,800	13,900	38,700	0	0	0						29
30		3,940	21,600	30,200	0	525	0						30
31			24,800	25,100	0	27,200	0						31
MEAN		10,230	8,644	46,808	3,135	2,254	35,215						MEAN
MAX.		38,700	29,100	159,600	21,300	27,200	151,300						MAX.
MIN.		0	0	0	0	0	0						MIN.
AC. FT.		608,800	531,500	2,878,100	174,000	138,600	2,095,400						AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
8,877

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
160,700		1	20	0730

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
0				

TOTAL
ACRE FEET
6,426,400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
			294,000		12-23-1955	JAN 1935-DATE					

See Sacramento River at Fremont Weir, East End, and Sacramento River at Fremont Weir, West End, for stage records and locations. Elevation of weir crest is 33.50 feet, USED datum; length of crest is 9,120 feet.



TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02972	BUTTE SLOUGH NEAR MERIDIAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	183	148	8,410	24,200	21,000	1,230	58,700	1,080	1,080	389	320	552	1
2	186	142	17,200	20,000	18,300	2,440	88,300	873	1,060	374	315	579	2
3	189	140	28,200	16,700	16,300	7,190	99,000	736	1,030	352	323	606	3
4	192	134	26,300	14,100	13,500	8,060	100,000	601	1,010	339	336	613	4
5	191	132	21,300	10,800	11,300	6,920	87,700	491	978	317	341	607	5
6	188	139	18,800	8,160	9,150	5,280	66,500	416	927	314	341	630	6
7	155	154	16,800	6,670	6,860	4,230	44,100	415	897	322	333	664	7
8	153	266	15,300	5,640	4,360	5,030	29,900	399	850	370	337	696	8
9	185	544	14,000	4,680	2,900	10,000	22,200	396	774	478	356	712	9
10	178	587	11,800	3,430	2,220	8,640	18,100	420	668	586	387	733	10
11	170	1,010	8,860	2,460	1,850	6,300	16,000	408	507	672	419	765	11
12	167	1,590	6,620	2,060	1,650	4,490	14,300	411	371	669	433	727	12
13	164	10,600	5,450	1,860	1,510	3,750	12,800	412	342	619	446	651	13
14	156	18,200	4,880	2,270	1,430	3,830	11,800	413	335	556	459	625	14
15	152	18,100	4,720	5,080	1,380	3,760	10,900	487	344	545	464	630	15
16	147	15,400	3,730	14,700	1,340	3,420	9,280	527	364	520	461	646	16
17	117	14,900	2,630	38,400	1,320	4,040	6,950	527	393	482	452	641	17
18	101	17,600	2,040	86,600	1,300	6,860	4,900	574	380	456	461	589	18
19	94	21,800	1,830	111,000	1,280	7,880	3,650	683	396	432	479	456	19
20	92	24,200	1,790	104,000	1,290	7,950	2,770	762	467	409	486	358	20
21	90	21,500	1,740	93,600	1,310	7,620	2,160	823	555	395	496	295	21
22	95	14,300	2,780	79,000	1,310	7,170	1,790	868	567	391	493	284	22
23	116	12,000	11,200	68,100	1,280	6,580	1,420	826	551	377	504	276	23
24	160	13,200	13,700	59,400	1,230	5,100	1,250	814	543	346	503	244	24
25	184	13,300	12,700	51,600	1,180	3,300	1,250	838	515	337	514	227	25
26	176	13,400	11,100	45,600	1,150	2,420	1,270	897	491	334	519	208	26
27	158	12,800	9,710	40,800	1,110	1,960	1,190	965	467	331	518	204	27
28	162	11,400	9,450	35,800	1,120	1,810	1,130	1,000	440	337	521	193	28
29	169	9,150	12,000	31,200		1,840	1,180	1,020	418	331	515	191	29
30	165	7,670	16,800	27,100		3,890	1,120	1,070	401	329	522	191	30
31	155		22,800	23,800		23,000		1,090		324	533		31
MEAN	154	9,150	11,117	33,510	4,640	5,677	24,053	685	604	420	438	493	MEAN
MAX.	192	24,200	28,200	111,000	21,000	23,000	100,000	1,090	1,080	672	533	765	MAX.
MIN.	90.0	132	1,740	1,860	1,110	1,230	1,120	396	335	314	315	191	MIN.
AC. FT.	9501	544474	683583	2060448	257712	349071	1431292	42133	35942	25851	26949	29341	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
\* - E AND \*

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL	
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
7591.9	114000	60.14	01	19	1030	90.0	39.46	10	21	0445	5496299	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 10 05	121 53 28	NE7 15N 1E	150,000	61.64	1/26/70	JAN 39-DATE	NOV 34-MAY 37 #	1934		0.00	USED
Station located on right bank 0.5 mi. upstream from Farmland Road 1.7 mi. NE of Meridian. Tributary to Sutter Bypass. Flow affected by gate operation. Flow during summer months is made up almost entirely of return water from lands irrigated by Feather River diversions. During flood periods Sacramento River water enters Butte Basin above Butte City from bank spill and spill over Moulton and Colusa Weirs.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1973	A05929	WADSWORTH CANAL NEAR SUTTER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	198	48	60	47	229	600	120	45	180	83	110	179	1
2	200	47	58	43	201	345	117	32	156	74	105	158	2
3	190	47	54	40	187	329	98	16	137	48	126	158	3
4	169	44	47	38	210	364	89	13	123	60	114	184	4
5	144	46	49	40	190	277	98	35	108	64	161	194	5
6	135	43	39	33	382	369	104	15	69	69	158	206	6
7	144	42	37	36	703	325	103	44	54	65	123	188	7
8	130	41	37 *	42	432	259	118	34	71	81	137	176	8
9	132	47	35	267	476	223	121	73	78	94	115	141	9
10	150	55	34	238	822	204	128	68 *	69	90	121 *	155	10
11	145	78	34	549	639	201	152	78	64	103	124	159	11
12	147	76	32	888	486	241	150	147	44	109	125	211	12
13	133	71	29	667	432	140	135	143	68	87	147	242	13
14	135	147	32	410	440	127	152	177	77	70	138	233	14
15	133	144 *	31	369	367	121	169	140	98	110	156	233	15
16	123	295	30	1070	277	115	192	120	85	101	154	232	16
17	104 *	206	64	1100	240	110	178	148	90	92 *	169	232	17
18	90	137	94	1240	206	104	143	173	104	90	173	209 *	18
19	86	116	190	989 *	237	101	116	177	90	93	194	198	19
20	75	104	123	665	142	107 *	188	156	107	96	200	203	20
21	78	99	101	588	130	137	84	128	90	132	185	183	21
22	77	91	87	485	130	160	59	149	65	140	183	205	22
23	71	83	71	406	148	122	47	149	71	131	182	260	23
24	64	73	67	357	170	111	47	174	90	103	215	234	24
25	61	73	61	454	217	106	26	220	111	104	220	207	25
26	59	67	57	348	232	101	26	179	115	98	222	198	26
27	51	65	51	275	586	96	25	211	104	93	248	171	27
28	57	67	52	241	936 *	88	31	228	86	101	229	180	28
29	58	59	51	258		83	54	178	76	108	203	168	29
30	50	59	54	432		116	56	175	83	97	179	165	30
31	51		50	283		126		145		108	165		31
MEAN	111	87.5	58.4	416	352	191	104	122	92.1	93.4	164	195	MEAN
MAX.	200	295	190	1240	936	600	192	228	180	140	248	260	MAX.
MIN.	50	41	29	33	130	83	25	13	44	48	105	141	MIN.
AC. FT.	6823	5098	3592	25580	19530	11720	6200	7478	5480	5740	10080	11630	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
164

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
NA				

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME

TOTAL
ACRE FEET
118900

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
39 09 12	121 44 00	NEL5 15N 2E		53.62	1/26/70	MAR 61-DATE	MAR 61-DATE	1961		0.00	USED

Station located at South Butte Road bridge, 0.9 mi. E of Sutter. Tributary to Sutter Bypass. This station and one 2.2 mi. downstream are used to determine the slope for rating of canal. This flow and flow of Butte Slough to Sutter Bypass make up entire Feather River contribution to the Sutter Bypass. Records for January 1939 to March 1961 previously published as Wadsworth Canal at Butte House Road.

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A05929	WADSWORTH CANAL NEAR SUTTER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	163	62	630	190	135	466	304	92	189	72	140	230	1
2	165	59	309	168	126	319	310	116	191	85	137	219	2
3	159	59	249	142	116	179	305	126	181	82	163	240	3
4	154	54	235	241	101	109	291	92	165	87	173	227	4
5	159	57	202	217	102	99	274	42	183	100	184	223	5
6	161	60	179	165	78	84	238	48	185	104	188	221	6
7	182	73	156	171	64	143	193	54	162	111	175	245	7
8	200	62	146	146	47	181	164	40	129	247	178	231	8
9	212	64	132	121	63	118	143 *	41	64	327	186 *	227	9
10	201	104	122	92	57	101	123	33	36	267	157	246	10
11	188	212	108	77 *	54	146	103	44	49	238 *	149	243	11
12	175	434	91	131	53	222	91	51	71	233	160	204	12
13	163	369	83 *	111	53	146	88	52	85	237	155	201	13
14	171	339 *	70	236	50	116 *	83	39 *	78	223	157	227	14
15	168	278	60	494	48 *	102	80	30	62	209	151	241	15
16	171 *	342	58	481	50	93	73	21	121	195	152	267	16
17	168	420	64	558	49	86	63	30	129	177	162	273 *	17
18	154	406	57	487	47	82	99	57	101	186	168	279	18
19	153	269	56	477	75	72	151	76	144	139	149	257	19
20	155	264	48	409	60	72	132	64	166	146	140	233	20
21	161	248	131	353	53	86	103	74	161 *	158	126	252	21
22	167	197	237	315	50	67	73	76	166	146	134	240	22
23	179	164	102	282	48	61	71	116	138	145	159	231	23
24	170	160	131	255	47	54	188	140	108	154	186	228	24
25	103	159	124	233	47	71	179	170	86	133	168	239	25
26	80	151	140	216	35	61	141	179	88	125	171	210	26
27	68	140	280	210	43	69	136	191	89	129	174	205	27
28	65	127	239	196	68	98	116	178	98	141	156	202	28
29	58	118	186	173		184	75	187	86	152	206	188	29
30	58	199	169	165		454	99	169	69	140	227	194	30
31	64		173	146		316		177		135	223		31
MEAN	148	187	160	247	65.0	144	150	90.5	119	162	166	231	MEAN
MAX.	212	434	630	558	135	466	310	191	191	327	227	279	MAX.
MIN.	58	54	48	77	35	54	63	21	36	72	126	188	MIN.
AC. FT.	9114	11150	9852	15190	3608	8840	8904	5564	7101	9963	10220	13730	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
156	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	113200
	NA										

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
39 09 12	121 44 00	NE15 15N 2E	53.62		1/26/70	MAR 61-DATE	MAR 61-DATE	1961		0.00
Station located at South Butte Road bridge, 0.9 mi. E of Sutter. Tributary to Sutter Bypass. This station and one 2.2 mi. downstream are used to determine the slope for rating of canal. This flow and flow of Butte Slough to Sutter Bypass make up entire Feather River contribution to the Sutter Bypass. Records for January 1939 to March 1961 previously published as Wadsworth Canal at Butte House Road.										

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

TABLE B-5 (CONT.) DAILY MEAN DISCHARGE (IN CUBIC FEET PER SECOND)														WATER YEAR		STATION NO.	STATION NAME
														1974	A05922	RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS	
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY				
1	0.0	0.0	50	44	49	41	50	0.0	3.4	0.0	0.0	5.3	1				
2	0.0	0.0	50	39	32	55	36	0.0	5.6	0.0	0.0	9.6	2				
3	0.0	0.0	58	46	31	56	34	0.0	16	0.0	0.0	14	3				
4	0.0	0.0	46	52	40	47	36	0.0	23	0.0	0.0	13	4				
5	0.0	0.0	48	45	48	60	40	0.0	17	0.0	0.0	17	5				
6	0.0	0.0	58	66	50	66	48	0.0	22	0.0	0.0	17	6				
7	0.0	0.0	43	48	46	68	52	0.0	15	0.0	0.0	18	7				
8	0.0	0.0	64	34	36	61	57	0.0	19	15	0.0	18	8				
9	0.0	0.0	48	28	56	59	62	0.0	2.7	23	0.0	25	9				
10	0.0	0.0	64	63	52	58	65	0.0	6.0	20	0.0	19	10				
11	0.0	0.0	46	51	49	58	66	0.0	0.0	19	0.0	18	11				
12	0.0	26	67	25	45	68	67	0.0	0.0	29	0.0	16	12				
13	0.0	47	69	59	43	69	65	0.0	0.0	27	0.0	14	13				
14	0.0	52	62	49	38	67	64	0.0	0.0	28	2.8	14	14				
15	0.0	57	65	57	38	50	27	0.0	0.0	30	2.7	11	15				
16	0.0	63	22	66	38	52	66	0.0	0.0	7.1	2.7	7.3	16				
17	0.0	65	62	61	30	47	72	0.0	0.0	9.1	17	6.8	17				
18	0.0	64	50	31	32	47	71	0.0	0.0	9.6	16	6.2	18				
19	0.0	51	40	23	32	72	71	0.0	0.0	9.8	15	4.6	19				
20	0.0	47	41	24	34	56	73	0.0	0.0	5.6	5.9	2.0	20				
21	0.0	6.0	36	21	32	66	54	3.9	0.0	16	5.7	2.7	21				
22	0.0	60	46	22	30	61	20	9.9	0.0	15	5.7	3.0	22				
23	0.0	65	66	22	28	61	33	5.5	0.0	9.2	5.7	2.0	23				
24	0.0	66	61	20	27	46	36	1.6	0.0	0.0	5.6	1.6	24				
25	0.0	63	34	20	26	54	39	1.5	8.3	0.0	5.5	1.2	25				
26	0.0	62	53	22	28	40	39	3.9	8.8	0.0	12	2.7	26				
27	0.0	60	54	24	28	37	38	6.0	9.0	0.0	4.9	2.4	27				
28	0.0	61	45	29	27	41	30	5.1	8.1	0.0	5.5	2.0	28				
29	0.0	59	57	40		34	21	11	8.6	0.0	5.3	2.0	29				
30	0.0	65	50	37		50	19	3.5	0.0	0.0	5.3	12	30				
31	0.0		44	40		59		2.2		0.0	5.3		31				
MEAN	0.0	34.7	51.2	39.0	37.3	55.0	48.3	1.7	5.8	8.8	4.1	9.6	MEAN				
MAX.	0.0	66	69	66	56	72	73	11	23	30	17	25	MAX.				
MIN.	0.0	0.0	22	20	26	34	19	0.0	0.0	0.0	0.0	1.2	MIN.				
AC. FT.	0.0	2065	3172	2396	2072	3384	2878	107	342	540	255	570	AC. FT.				

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
24.6

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
NA				

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME

TOTAL
ACRES FEET
17780

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
39 01 57	121 44 33	NW27 14N 2E				MAY 54-DATE				0.00
Plant located 9.9 mi. SW of Yuba City, 8.5 mi. E of Grimes. This is drainage returned by gravity.										

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02963	RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	15	15	78	44	44	0.0	0.0	0.0	35	28	16	47	1
2	14	15	29	44	44	0.0	0.0	16	28	10	16	56	2
3	14	14	11	45	45	0.0	0.0	21	28	18	11	51	3
4	14	15	29	63	28	0.0	0.0	13	28	29	19	45	4
5	15	14	29	27	22	0.0	0.0	18	28	39	15	40	5
6	12	16	16	20	22	0.0	24	18	28	29	15	39	6
7	16	16	30	46	22	0.0	0.0	0.0	29	28	16	38	7
8	14	14	0.0	46	19	0.0	0.0	6.7	13	65	14 *	38	8
9	16	15	26	46	0.0	0.0	0.0	11	19	56	15	36	9
10	15	12	0.0	3.9	0.0	0.0	0.0	16	20	46	15	37	10
11	15	8.0	26	48	0.0	0.0	0.0	25	18	37	15	36	11
12	13	61	0.0	48	0.0	0.0	0.0	34	25	33	16	32	12
13	13	18	0.0	3.9	0.0	0.0	0.0	34	20	31	27	28	13
14	13	35	0.0	47	0.0	0.0	0.0	36	21	20	33	33	14
15	14	30	0.0	46	0.0	0.0	0.0	39	28	28	29	38	15
16	14	29	27	52	0.0	0.0	12	53	27	22	28	34	16
17	12	46	0.0	90	0.0	0.0	0.0	49	32	33	39	30	17
18	13	45	0.0	91	0.0	0.0	0.0	50	30	34	30	19	18
19	15	44	0.0	82	0.0	0.0	0.0	54	35	27	30	28	19
20	14	43	0.0	74	0.0	0.0	0.0	45	30	20	20	25	20
21	14	43	43	76	0.0	0.0	0.0	42	36	29	26	18	21
22	14	28	27	78	0.0	0.0	0.0	40	30	26	23	19	22
23	17	0.0	0.0	80	0.0	0.0	0.0	24	31	15	27	18	23
24	14	15	26	80	0.0	0.0	0.0	27	36	20	22	12	24
25	15	9.1	28	82	0.0	0.0	0.0	36	45	20	21	12	25
26	14	0.0	31	67	0.0	0.0	0.0	37	25	20	31	9.5	26
27	11	0.0	54	63	0.0	0.0	0.0	39	29	16	36	6.8	27
28	14	0.0	69	54	0.0	0.0	0.0	33	33	11	35	14	28
29	15	0.0	46	43	0.0	0.0	0.0	28	27	24	35	11	29
30	14	16	45	44	0.0	0.0	0.0	27	19	18	42	9.5	30
31	14		44	44		0.0		33		20	30		31
MEAN	14.1	20.5	23.0	54.1	8.8	0.0	1.2	29.1	27.8	27.5	24.1	28.6	MEAN
MAX.	17	61	78	91	45	0.0	24	54	45	65	42	56	MAX.
MIN.	11	0.0	0.0	3.9	0.0	0.0	0.0	0.0	13	10	11	6.8	MIN.
AC. FT.	867	1222	1416	3328	488	0.0	71	1800	1652	1690	1481	1705	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
21.6	NA										15720

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 01 44	121 46 53	SE30 14N 2E				JAN 25-DATE					
Plant located on north levee of Tisdale Bypass, 2.1 mi. E of Tisdale Weir, 6.8 mi. SE of Grimes. This drainage returned by pumping and gravity.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02926	RECLAMATION DISTRICT 1500 DRAINAGE TO SACRAMENTO SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	118	26	243	427	297	226	235	292	510	387	449	487	1
2	82	22	690	239	297	190	207	255	582	322	417	568	2
3	127	16	285	237	297	255	214	292	532	371	474	421	3
4	135	10	345	232	215	202	236	171	553	322	490	368	4
5	106	30	314	240	241	203	240	384	517	282	461	453	5
6	0.0	30	287	552	272	220	248	316	487	410	465	428	6
7	78	16	254	402	253	238	299	396	402	355	514	521	7
8	74	20	243	381	254	230	227	417	450	627	433	755	8
9	74	28	253	356	239	231	214	387	419	620	484	504	9
10	69	34	225	323	222	262	230	469	379	733	473	388	10
11	65	148	233	320	193	139	223	392	372	700	479	422	11
12	74	63	242	244	194	284	228	452	343	581	469	422	12
13	0.0	232	235	490	180	252	217	388	331	432	444	405	13
14	123	236	227	385	157	245	206	558	217	551	456	351	14
15	0.0	218	220	473	168	220	206	545	293	489	485	266	15
16	98	226	171	517	168	220	165	516	388	447	465	250	16
17	41	237	210	734	126	220	161	517	582	347	465	194	17
18	57	393	199	664	189	217	121	520	478	319	477	194	18
19	41	216	169	428	165	206	121	663	486	437	493	206	19
20	41	227	173	631	134	222	149	517	558	418	473	128	20
21	41	229	240	408	0.0	225	260	612	511	449	560	149	21
22	74	230	248	353	0.0	218	220	610	523	372	477	158	22
23	74	219	354	360	0.0	206	221	614	535	402	515	113	23
24	78	211	352	368	130	210	251	613	486	401	515	73	24
25	41	202	242	338	134	218	253	597	359	456	513	73	25
26	41	204	330	308	135	174	266	582	385	519	460	74	26
27	49	193	488	305	135	186	199	567	382	419	503	57	27
28	57	189	524	314	147	199	244	529	322	599	503	53	28
29	57	183	587	323		195	268	495	421	488	501	53	29
30	57	240	527	282		197	292	471	491	507	507	53	30
31	57		237	371		249		581		0.0	495		31
MEAN	65.5	150	301	387	176	218	221	475	443	444	481	286	MEAN
MAX.	135	393	690	734	297	284	299	663	582	733	560	755	MAX.
MIN.	0.0	10	169	232	0.0	139	121	171	217	0.0	417	53	MIN.
AC. FT.	4024	8981	18540	23810	9802	13410	13130	29190	26360	27300	29580	17030	AC. FT.

**WATER YEAR SUMMARY**

8 - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
304	NA										221200

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
38 47 05	121 39 18	NE20 11N 3E				APR 30-OCT 38 8 Jan 39-DATE					
Plant located on west levee of Sutter Bypass, 3.7 mi. SE of Knights Landing. This is drainage returned by pumping and gravity.											
8 - Irrigation season only.											

TABLE B-5 (CONT.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02925	SACRAMENTO SLOUGH AT SACRAMENTO RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	486	290	F	F	F	1138	F	0.0	1760	1020	1080	1530	1
2	442	291	F	F	F	F	F	560	1830	890	1010	1490	2
3	461	266	F	F	F	F	F	371	1790	859	1010	1550	3
4	479	261	F	F	F	F	F	0.0	1700	880	1100	1580	4
5	429	261	F	F	F	F	F	0.0	1660	937	1060	1580	5
6	402	274	F	F	F	F	F	163	1750	983	1140	1650	6
7	455	313	F	F	F	F	F	251	1610	926	1100	1770	7
8	433	352	F	F	F	F	F	0.0	1550	935	1110	1930	8
9	474	500	F	F	F	F	F	0.0	1440	1530	1100 *	1760	9
10	462	773	F	F	F	F	F	0.0	1300	1690	1120	1660	10
11	428	601	F	F	F	F	F	241	1180	1730 *	1150	1720	11
12	425	0.0	F	F	F	F	F	316	1180	1750	1180	1770	12
13	371	F	F	F	F	F	F	443	1190	1720	1190	1770	13
14	411	F	F	F	F	F	F	459 *	1140	1620	1230	1690	14
15	342	F	F	F	2300	F	F	1110	247	1560	1240	1570	15
16	365 *	F	F	F	2140	F	F	1190	398	1440	1270	1470	16
17	352	F	F	F	2048	F	F	1110	795	1310	1270	1480 *	17
18	330	F	F	F	2230	F	F	1015	911	1240	1290	1460	18
19	294	F	F	F	2030	F	F	1190	995	1210	1280	1440	19
20	268	F	F	F	691 *	F	F	1030	1180	1230	1310	1370	20
21	281	F	F	F	F	F	F	1290	1330 *	1150	1260	1210	21
22	301	F	F	F	F	F	F	1472	1320	1120	1330	1110	22
23	314	F	F	F	F	F	F	1610	1360	1040	1260	996	23
24	388	F	F	F	2430	F	F	1540	1290	1030	1340	876	24
25	413	F	F	F	1940	F	3820	1470	1140	1030	1350	864	25
26	407	F	F	F	1860	F	2540	1570	1120	1080	1330	817	26
27	338	F	F	F	1950	F	1650	1640	1040	1080	1380	730	27
28	324	F	F	F	1770	F	1190	1670	990	1100	1390	700	28
29	302	F	F	F	F	F	176	1700	1000	1070	1400	709	29
30	315	F	F	F	F	F	0.0	1530	1090	1070	1470	679	30
31	292	F	F	F	F	F	F	1700	F	1080	1530	F	31
MEAN	380	NR	NR	NR	NR	NR	NR	NR	1243	1204	1235	1364	MEAN
MAX.	486	NR	NR	NR	NR	NR	NR	NR	1830	1750	1530	1930	MAX.
MIN.	268	NR	NR	NR	NR	NR	NR	NR	247	859	1010	679	MIN.
AC. FT.	23370	NR	NR	NR	NR	NR	NR	NR	73960	74000	75930	81180	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

MEAN
DISCHARGE
NR

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
NR				

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
NR				

TOTAL
ACRE FEET
NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
38 46 52	121 38 27	SE21 11N 3E				JUN 24-OCT 39 8 JAN 40-DATE	APR 45-DEC 46 8 APR 47-DATE			
Station located 0.5 mi. above mouth, 4.6 mi. SE of Knights Landing. During low flows this represents combined flows of Sutter Bypass and Reclamation District 1500. During high flows (above gage ht. 26.0 ±) the slough is entirely submerged as it lies within the bypass area. Sharp rises in the Sacramento River cause zero or negative flow.										
B - Irrigation season only. F - Flooded										

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A55420	FEATHER RIVER, MIDDLE FORK, NEAR PORTOLA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	20	41	139	427	261	469	2,450	415	111	58	42	28	1
2	21	40	124	310	240	1,040	2,010	396	117	57	41	28	2
3	21	41	173	244	225	2,040	1,750	380	121	57	41	27	3
4	22	40	340	221	211	1,630	1,360	375	128	57	43	25	4
5	22	42	349	195	193	1,120	1,070	361	134	56	49	24	5
6	23	47	270	172	130	977	900	316	130	54	46	30	6
7	24	57	232	151	148	1,070	792	241	127	52	46	89	7
8	25	69	211	140	153	1,160	716	268	247	59	43	87	8
9	26	90	205	151	168	953	675	275	133	62	41	87	9
10	28	107	182	136	165	753	670	283	135	59	39	64	10
11	28	110	163	120	161	653	659	293	140	57	40	26	11
12	28	144	141	118	158	610	623	314	141	55	41	26	12
13	27	213	165	165	152	590	586	337	143	54	42	28	13
14	29	527	166	319	146	580	548	352	130	55	42	27	14
15	30	521	226	1,330	156	550	521	363	127	67	41	26	15
16	30	373	286	2,250	162	548	512	362	128	88	40	26	16
17	30	344	285	1,750	160	558	475	319	126	93	40	26	17
18	31	418	300	1,970	159	571	502	278	133	90	41	25	18
19	30	515	541	2,030	172	572	541	262	145	84	44	26	19
20	30	566	623	2,280	191	552	591	259	132	77	51	30	20
21	30	385	421	1,590	212	509	580	259	120	71	53	30	21
22	35	271	353	1,050	202	486	493	254	110	66	49	30	22
23	42	210	396	933	186	468	454	237	108	64	45	31	23
24	45	164	352	791	178	450	473	193	101	63	43	31	24
25	52	140	288	674	181	441	510	146	87	60	42	31	25
26	57	116	236	580	187	440	518	132	78	56	41	32	26
27	57	118	252	498	204	449	498	116	72	52	39	32	27
28	52	119	494	469	229	530	462	103	68	49	36	33	28
29	47	117	759	451		653	448	97	63	47	33	34	29
30	44	119	783	430		1,210	439	93	60	46	32	33	30
31	42		870	367		3,170		98		44	30		31
MEAN	33.2	202	333	719	181	832	760	263	119	61.6	41.8	35.7	MEAN
MAX.	57.0	566	870	2,280	261	3,170	2,450	415	247	93.0	53.0	89.0	MAX.
MIN.	20.0	40.0	124	118	130	440	439	93.0	60.0	44.0	30.0	24.0	MIN.
AC. FT.	2039	12028	20479	44255	10096	51177	45275	16219	7131	3786	2571	2126	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 = - E AND \*

MEAN	MAXIMUM						MINIMUM						TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME		DISCHARGE	GAGE HT.	MO.	DAY	TIME		ACRS FEET
300.0	3650	7.79	03	31	1315		20.0	2.09	10	01	0000		217102

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 49 07	120 26 37	NE 29 23N 14E	9,300	10.34	3-18-1967	NOV 1955-DATE	NOV 1955-DATE	1955 1965	1965	0.00 1.00	LOCAL LOCAL
Station located south of State Highway 70, 1.8 miles northeast of Portola. Stage-discharge relationship at times affected by ice.											

Station located south of State Highway 70, 1.8 miles northeast of Portola. Stage-discharge relationship at times affected by ice.



TABLE B-5 (Cont.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A54455	RED CLOVER CREEK ABOVE ABBEY BRIDGE DAMSITE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.1*	4.1	33	89	77	150	586	118	18	3.8	1.7	1.2	1
2	1.6	4.2	67	72	67	153	483	125	15	3.4	1.4	1.1	2
3	1.9	4.8	68	61	65	163	387	124	15	3.4	2.5	1.2	3
4	2.2	4.7	46	44	60	157	319	119	14	3.4	2.7	1.2	4
5	2.7	5.2	41	44	48	151	303	119	15	3.4*	2.7	1.1	5
6	3.4	8.6	42	43	53	158	269	120	13	3.4	2.2	1.2	6
7	4.6	9.6	60	42	53	141	251	125	13	3.3	2.0	1.2	7
8	5.3	7.6	57	36	44	120	244	132	12	4.7	1.8	1.2	8
9	5.4	9.7	39	34	41	111	257	135	11	5.8	1.7	1.1	9
10	5.6	16	33	27	39	116	223	127	9.8	5.6	1.7	1.2	10
11	6.7	59	27	29	38	121	200	115	9.0	4.8	1.6	1.1	11
12	5.3	140	31	47	37	160	192	104	8.6	4.0	1.4	2.4	12
13	2.8	50	24	170	37	194	177	94	8.3	3.7	1.3	2.5	13
14	3.2	38	35	171	37	283	169	72	7.6	3.5	1.4	2.0	14
15	4.6	37	42	427	36	334	168	62	7.3	3.3	1.4	1.9	15
16	3.1	66	38	441	37	360	172	66	7.6	3.3	1.4	1.9	16
17	5.7	87	83	633	36	384	175	62	7.2	3.3	1.5	2.0	17
18	4.2	95	104	536	41	430	185	61	6.7	3.1	1.3	2.1	18
19	3.2	48	77	705	43	372	198	59	6.6	3.1	1.2	3.1	19
20	3.5	35	58	427	37	322	172	51	6.6	2.8	1.2	2.7	20
21	3.5	30	50	266	32	286	152	40	6.4	2.7	1.2	1.9	21
22	5.7	24	48	201	30	263	154	33	6.2	2.8	1.3	2.1	22
23	9.9	21	40	173	43	242	159	30	6.0	2.8	1.3	2.0*	23
24	6.3	21	36	148	48	223	159	28	5.8	2.5	1.3	1.9	24
25	5.0	19	33	137	43	217	145	26	5.5	2.5	1.2	2.0	25
26	4.8	19	37	116	42	206	134	25	5.4	2.5	1.0	2.0	26
27	4.4	18	107	108	47	234	120	25	5.0	2.4	0.9	1.9	27
28	4.3	35	151	99	30	338	110	25	4.1	2.4	1.1	2.0	28
29	4.9	53	467	89		582	105	24	4.1	2.2	1.1	2.1	29
30	3.8	59	195	81		1,070	109	24	4.0	1.8	1.1	2.0	30
31	4.2		116	76		615		20		1.6	1.2		31
MEAN	4.3	34.3	73.7	179	44.3	279	215	73.9	8.8	3.3	1.5	1.8	MEAN
MAX.	9.9	140	467	705	77.0	1,070	586	135	18.0	5.8	2.7	3.1	MAX.
MIN.	1.6	4.1	24.0	27.0	30.0	111	105	20.0	4.0	1.6	0.9	1.1	MIN.
AC. FT.	266	2040	4532	11052	2461	17169	12847	4542	523	201	93	106	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
\* - E AND \*

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
77.1	1440	9.33	03	30	0500	0.5	2.03	08	26	2400	55832

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 58 05	120 31 09	SE 4 24N 13E	3,460 E	11.36	12-22-1964	DEC 1962-DATE	DEC 1962-DATE	1962		0.00	LOCAL

Station located above bridge on Forest Service road, 13 miles east of Genesee, 11 miles north of Portola. Stage-discharge relationship at times affected by ice. Drainage area is 87.9 square miles.

TABLE B-5 (CONT.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A54750	LAST CHANCE CREEK AT DIXIE REFUGE DAMSITE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
40 05 28	120 21 46	SE 23 26N 14E	1,570 E	7.42	12-22-1964	OCT 1964-DATE	JULY 1963-DATE	1963 1968	1968	0.00 0.00	LOCAL LOCAL
Station located on Forest Service road, 5.7 miles south of Milford. Tributary to Indian Creek via Red Clover Creek. Stage-discharge relationship at times affected by ice. Maximum discharge listed is at site and datum then in use. Prior to October 2, 1968, station located 0.8 mile downstream.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A54370	INDIAN CREEK NEAR TAYLORSVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

DATA INSUFFICIENT TO COMPUTE DISCHARGE

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 02 54	120 48 55	NW 12 25N 10E	30,200E	10.65	2-1-1963	APR 45-AUG 54 * AUG 54-DATE	APR 45-AUG 54 * AUG 54-DATE	1954 1963	1963	0.00 0.00	LOCAL LOCAL
Station located 0.5 mile above Montgomery Creek, 2.3 miles southeast of Taylorsville. Maximum discharge listed at site and datum then in use. Drainage area is 526 square miles.											
* - Maintained by watermaster service for irrigation season only.											

TABLE B-5 (CONT.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A52250	FEATHER RIVER, WEST BRANCH, NEAR PARADISE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.1	1.4	2,190	887	726	3,230	3,850	767	659	89	2.1	1.4	1
2	1.0	1.4	1,050	723	627	2,080	2,870	789	698	72	1.9	1.4	2
3	1.1	1.3	760	650	576	1,290	2,060	760	713	57	1.6	1.3	3
4	1.3	1.3	640	570	545	956	1,700	796	678	46	1.7	1.3	4
5	1.6	15	548	523	510	809	1,480	843	657	40	4.1	1.2	5
6	1.8	370	496	491	433	704	1,310	952	620	35	1.8	1.3	6
7	41	1,670	475	445	353	727	1,170	1,060	547	31	1.7	1.3	7
8	24	657	442	414	334	654	1,080	1,180	503	213	2.0	1.3	8
9	6.8	1,700	401	373	318	589	1,060	1,180	510	435	4.4	1.2	9
10	27	3,780	373	343	307	601	936	1,040	494	192	4.4	2.4	10
11	24	8,950	401	328	294	871	885	946	460	111	2.7	1.8	11
12	21	6,890	367	577	292	1,170	879	897	379	78	7.9	1.5	12
13	20	2,530	456	1,440	280	897	815	802	361	55	16	1.3	13
14	23	1,630	388	1,840	270	767	786	753	404	43	11	1.3	14
15	22	1,330	346	6,630	258	721	783	754	416	33	5.1	1.3	15
16	19	3,220	324	6,520	302	660	755	684	392	23	2.3	1.3	16
17	18	3,030	605	5,080	274	620	773	624	343	21	1.9	1.2	17
18	3.2	2,460	526	4,710	264	580	802	533	325	22	1.6	1.2	18
19	1.6	1,430	410	4,920	644	520	688	468	330	24	1.7	1.2	19
20	1.5	1,010	364	2,720	439	490	660	432	293	20	1.8	1.1	20
21	2.1	785	627	1,900	390	470	679	411	258	16	1.9	1.0	21
22	232	664	699	1,490	358	450	739	483	248	13	1.8	1.1	22
23	461	564	508	1,230	324	420	783	537	227	11	1.9	1.5	23
24	87	506	433	1,070	310	400	670	586	202	9.5	5.2	1.7	24
25	36	450	417	926	301	450	599	664	180	7.4	2.1	1.8	25
26	22	397	412	818	321	560	565	779	155	6.1	1.9	1.8	26
27	19	353	928	728	327	2,310	527	878	136	5.3	1.9	1.8	27
28	9.6	340	1,520	661	972	2,240	529	846	110	4.6	1.7	1.8	28
29	5.4	350	2,590	607		7,340	584	735	101	3.4	1.6	1.7	29
30	2.7	1,470	1,610	624		8,710	678	674	95	2.7	1.6	1.7	30
31	1.6		1,120	696		3,670		643		2.5	1.5		31
MEAN	36.7	1,552	723	1,643	405	1,482	1,057	758	383	55.5	3.25	1.44	MEAN
MAX.	461	8,950	2,590	6,630	972	8,710	3,850	1,180	713	435	16	2.4	MAX.
MIN.	1.0	1.3	324	328	258	400	527	411	95	2.5	1.5	1.0	MIN.
AC. FT.	2,260	92,340	44,480	101,000	22,510	91,150	62,870	46,600	22,800	3,410	200	86	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRES FEET
676	13,000	18.17	3	30	0430						489,700

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 47 12	121 33 42	SE 6 22N 4E	26,300	26.2	12-22-1964	OCT 1957-DATE	OCT 1957-DATE	1957		0.00	LOCAL
Station located 0.6 mile upstream from Griffin Gulch and 4.0 miles northeast of Paradise. Drainage area is 110 square miles.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A55100	FEATHER RIVER, MIDDLE FORK, NEAR MERRIMAC

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	201	319	3,980	3,630	2,310	6,130	10,200	3,180	2,860	826	400	263	1
2	201	313	2,560	2,730	2,040	6,760	9,000	3,500	2,940	794	394	259	2
3	199	311	2,100	2,460	1,900	5,170	8,000	3,420	2,990	757	389	255	3
4	198	310	1,900	2,130	1,800	4,710	6,200	3,500	2,840	717	384	250	4
5	199	387	1,860	2,010	1,710	3,700	5,470	3,670	2,650	690	427	246	5
6	203	1,220	1,800	1,900	1,600	3,330	4,900	3,980	2,580	666	423	243	6
7	370	3,620	1,700	1,750	1,500	3,220	4,440	4,410	2,410	639	394	241	7
8	393	2,180	1,650	1,620	1,460	3,130	4,140	4,950	2,170	1,060	376	247	8
9	316	2,960	1,570	1,520	1,420	2,950	4,030	5,190	2,120	2,050	367	291	9
10	262	6,880	1,510	1,450	1,400	2,720	3,700	4,890	2,010	1,280	351	292	10
11	240	14,400	1,580	1,390	1,360	2,770	3,510	4,530	2,000	954	344	291	11
12	239	12,700	1,570	1,650	1,340	3,340	3,440	4,300	1,970	828	336	253	12
13	235	6,330	1,690	2,590	1,300	3,160	3,290	3,960	1,890	753	331	224	13
14	230	4,500	1,670	3,940	1,260	3,010	3,180	3,660	1,840	701	326	220	14
15	224	3,730	1,520	13,100	1,210	3,160	3,170	3,630	1,750	661	328	218	15
16	223	5,290	1,500	13,100	1,300	3,370	3,320	3,400	1,660	633	326	219	16
17	223	6,400	2,060	14,300	1,230	3,630	3,420	3,070	1,540	633	321	216	17
18	219	5,900	2,150	12,100	1,230	3,700	3,600	2,690	1,440	628	317	213	18
19	219	4,060	1,910	14,500	1,500	3,660	3,330	2,420	1,460	607	312	209	19
20	235	3,260	2,020	10,500	1,380	3,400	3,190	2,230	1,370	583	311	205	20
21	250	2,730	2,170	7,830	1,340	3,170	3,270	2,160	1,260	565	314	202	21
22	430	2,260	2,120	6,070	1,300	3,100	3,390	2,290	1,220	545	317	201	22
23	1,220	1,950	1,880	5,250	1,230	3,020	3,540	2,470	1,170	528	311	202	23
24	649	1,750	1,790	4,530	1,200	2,960	3,220	2,650	1,100	510	300	201	24
25	467	1,590	1,690	3,920	1,190	3,210	2,970	2,910	1,030	492	295	195	25
26	422	1,460	1,650	3,450	1,230	4,200	2,790	3,330	969	479	288	194	26
27	396	1,350	2,410	3,040	1,320	6,400	2,610	3,740	912	463	281	194	27
28	380	1,290	3,550	2,810	1,490	9,500	2,520	3,720	874	451	275	194	28
29	360	1,340	7,200	2,620		13,000	2,550	3,310	855	437	271	191	29
30	340	2,740	5,760	2,460		18,000	2,780	2,980	841	423	267	195	30
31	328		4,520	2,410		14,000		2,830		409	267		31
MEAN	325	3,451	2,356	4,928	1,448	5,019	4,106	3,451	1,757	702	334	227	MEAN
MAX.	1,220	14,400	7,200	14,500	2,310	18,000	10,200	5,190	2,990	2,050	427	292	MAX.
MIN.	198	310	1,500	1,390	1,190	2,720	2,520	2,160	841	409	267	191	MIN.
AC. FT.	19,980	205,400	144,900	303,000	80,430	308,600	244,300	212,200	104,600	43,160	20,520	13,540	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRES FEET
2,349	27,400	17.19	3	30							1,700,000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 42 30	121 16 10	NE 2 21N 6E	86,200	26.50	12-22-1964	OCT 1951-DATE	OCT 1951-DATE	1951		0.00	LOCAL
Station located 400 feet from bridge on Millsap Bar Road, 500 feet downstream from Little North Fork, 4.5 miles southeast of Merrimac, and 20 miles northeast of Oroville. Altitude 1,560 feet. Drainage area is 1,062 square miles.											

TABLE B-5 (CONT.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A56080	FEATHER RIVER, SOUTH FORK, AT PONDEROSA DAM

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	36	134	992	568	383	1,880	4,070	472	355	0.0	270	275	1
2	110	134	645	508	356	1,510	3,310	460	222	238	300	275	2
3	117	134	520	496	383	962	2,400	454	0.0	295	270	270	3
4	100	134	460	490	472	815	1,890	454	0.0	236	265	250	4
5	114	192	460	508	460	731	1,570	834	0.0	265	265	265	5
6	110	290	427	508	454	717	1,330	2,640	0.0	295	265	275	6
7	147	394	432	496	460	745	1,130	60	197	305	265	270	7
8	147	330	383	484	454	745	1,010	55	632	356	270	270	8
9	156	275	388	484	444	717	1,000	30	652	183	270	84	9
10	151	275	366	478	444	697	880	196	321	275	270	6.6	10
11	71	888	366	472	438	745	801	300	0.0	275	270	210	11
12	88	836	366	508	449	940	738	300	0.0	270	270	270	12
13	192	520	427	562	466	836	671	300	0.0	255	265	260	13
14	121	472	405	711	460	773	593	300	0.0	236	265	265	14
15	130	366	372	1,680	460	731	562	300	0.0	241	265	265	15
16	126	460	372	1,250	460	703	556	336	0.0	265	270	275	16
17	121	490	372	1,840	472	678	532	310	0.0	265	270	265	17
18	121	490	372	1,280	460	684	496	290	0.0	265	275	275	18
19	121	520	366	1,610	612	645	490	287	0.0	265	275	275	19
20	114	520	350	1,560	556	638	484	310	0.0	260	275	270	20
21	121	228	372	1,370	526	606	496	530	0.0	255	275	270	21
22	147	310	520	1,620	526	580	514	555	0.0	260	275	270	22
23	23	405	432	970	514	568	295	565	0.0	265	275	265	23
24	246	378	432	1,010	490	562	444	411	0.0	265	280	101	24
25	228	361	460	895	484	568	490	386	0.0	265	280	63	25
26	134	366	460	752	478	619	490	386	0.0	270	280	86	26
27	134	366	520	652	484	808	490	376	0.0	275	275	53	27
28	143	361	704	556	526	1,180	484	366	0.0	275	270	103	28
29	160	350	1,360	484		2,340	478	366	0.0	280	265	82	29
30	147	325	822	484		6,180	472	303	0.0	285	265	62	30
31	134		645	383		4,640		355		285	265		31
MEAN	129	377	502	828	470	1,147	972	429	79.3	259	271	208	MEAN
MAX.	246	888	1,360	1,840	612	6,180	4,070	2,640	652	356	300	275	MAX.
MIN.	23	134	350	383	356	562	295	30	0.0	0.0	265	6.6	MIN.
AC. FT.	7,950	22,420	30,880	50,910	26,120	70,500	57,850	26,350	4,720	15,920	16,690	12,350	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
473	GAGE HT. MO. DAY TIME	GAGE HT. MO. DAY TIME	342,700

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 32 52	121 18 11	SE 33 20N 6E	11,000	12.70	12-22-1964	JULY 1962-DATE	JULY 1962-DATE	1962	1967	0.00	LOCAL
								1967		0.00	USCGS

Station located at entrance to Miners Ranch Canal on the left end of Ponderosa Dam, 2,800 feet upstream from Sucker Run, and 2.6 miles northwest of Forbestown. Prior to October 1, 1967, at site 1,800 feet downstream. Drainage area is 108 square miles.

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A56911	PALERMO CANAL AT OROVILLE DAM

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	17	4.2	3.9	3.8	3.8	6.1	6.4	6.3	18	20	23	21	1
2	17	4.0	3.8	3.8	3.7	6.2	6.4	6.2	19	20	23	21	2
3	17	4.1	3.8	3.8	3.7	6.2	6.4	9.4	19	20	23	21	3
4	17	4.1	1.2	3.8	3.7	6.2	6.3	11	19	20	23	21	4
5	17	4.1	0	3.8	3.7	6.2	6.3	11	19	20	23	21	5
6	16	4.1	1.4	3.8	3.7	6.2	6.2	11	20	20	23	21	6
7	16	4.1	3.7	3.8	3.7	6.2	6.2	11	22	20	23	21	7
8	13	4.1	3.7	3.8	4.4	6.2	6.2	12	22	14	23	21	8
9	8.5	4.2	3.7	3.8	5.4	6.2	6.2	14	22	11	23	21	9
10	7.0	4.3	3.7	3.7	5.6	6.2	6.2	15	22	11	23	21	10
11	7.0	4.3	3.7	3.7	6.0	6.2	6.2	15	22	11	23	21	11
12	7.7	3.9	3.7	3.7	6.0	6.2	6.2	15	22	11	22	21	12
13	7.8	4.8	3.8	3.7	5.9	6.2	6.2	15	21	11	20	21	13
14	6.6	4.4	3.7	3.8	6.0	6.2	6.2	15	20	11	20	21	14
15	6.7	4.1	3.7	3.8	6.0	6.2	6.2	15	20	11	20	21	15
16	6.7	4.1	3.7	3.8	6.0	6.2	6.2	15	20	11	21	21	16
17	8.0	4.1	3.7	3.9	6.0	6.2	6.2	15	20	13	24	21	17
18	10	4.1	3.7	3.8	6.0	6.2	6.2	15	20	14	22	21	18
19	10	3.4	3.7	3.8	6.0	6.2	6.2	15	20	16	20	21	19
20	8.8	3.7	3.7	3.8	6.0	6.2	6.2	15	20	20	20	21	20
21	6.5	3.7	3.7	3.8	6.0	6.2	6.2	15	20	20	20	21	21
22	5.1	3.7	3.8	3.8	6.0	6.2	6.2	15	20	20	20	21	22
23	4.1	3.8	3.8	3.8	6.0	6.2	6.2	15	20	19	20	21	23
24	4.2	3.7	3.8	3.8	6.0	6.2	6.3	15	20	21	20	21	24
25	4.3	3.6	3.7	3.8	6.0	6.2	6.2	17	20	22	20	21	25
26	4.2	3.4	3.8	3.8	6.0	6.2	6.3	18	20	23	20	20	26
27	4.1	3.5	3.7	3.8	6.0	6.2	6.3	18	20	23	20	19	27
28	4.1	3.7	3.8	3.8	6.0	6.3	6.3	18	20	23	20	19	28
29	4.2	3.8	3.8	3.7		6.4	6.3	18	20	23	20	18	29
30	4.2	3.8	3.8	3.8		6.4	6.3	18	20	23	20	17	30
31	4.3		3.8	3.8		6.4		18		23	20		31
MEAN	8.8	4.0	3.5	3.8	5.3	6.2	6.2	14.3	20.2	17.6	21.4	20.6	MEAN
MAX.	17	4.8	3.9	3.9	6.0	6.4	6.4	18	22	23	24	21	MAX.
MIN.	4.1	3.4	0	3.7	3.7	6.1	6.2	6.2	18	11	20	17	MIN.
AC. FT.	544	236	213	233	296	382	372	877	1,200	1,080	1,310	1,230	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
11.0											7,980

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFs	GAGE HT.	DATE			FROM	TO		
39 31 59	121 28 54	SW 1 19N 4E	29 E	1.32	1-20-1964	APR 1963-DATE	APR 1963-DATE	1963		0.00	LOCAL
Station is located at the outlet of the relocation tunnel of Palermo Canal, 50 feet southeast of toe of the dam.											

TABLE B-5 (CONT.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A05191	FEATHER RIVER AT OROVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	405	411	424	400	406	420	31,400	423	403	404	413	413	1
2	410	412	413	402	403	408	37,300	423	400	408	411	409	2
3	404	410	409	406	405	405	37,300	421	401	413	415	411	3
4	410	408	409	409	405	402	33,700	421	398	409	418	413	4
5	409	411	411	400	405	400	17,200	430	397	412	418	409	5
6	407	410	412	405	407	400	12,500	422	401	411	411	412	6
7	409	410	410	432	405	407	9,900	419	405	414	416	411	7
8	409	410	411	423	406	405	7,460	423	404	415	415	414	8
9	408	415	413	414	406	402	5,800	422	404	412	410	412	9
10	406	413	410	415	402	403	1,840	422	407	413	406	411	10
11	407	425	404	416	405	406	403	423	406	412	407	405	11
12	408	425	402	415	406	405	403	423	407	410	408	410	12
13	407	433	410	409	410	400	400	432	415	411	408	412	13
14	405	427	410	429	409	403	399	431	410	411	409	408	14
15	407	423	408	2,460	409	402	405	422	408	411	408	411	15
16	406	2,200	411	12,400	410	396	410	422	409	413	408	411	16
17	407	8,890	412	28,900	409	394	410	413	401	414	404	409	17
18	406	8,810	411	32,700	408	392	412	413	406	415	409	410	18
19	407	5,430	411	29,800	413	390	411	413	415	408	412	409	19
20	407	5,450	411	29,800	416	390	409	413	409	406	408	411	20
21	406	5,400	408	29,500	413	388	411	414	403	413	407	409	21
22	407	5,430	405	23,200	417	390	410	413	402	412	406	406	22
23	408	5,400	407	16,900	413	407	414	404	405	411	400	410	23
24	411	5,430	406	14,500	412	414	413	404	404	409	408	411	24
25	416	5,380	409	14,500	412	406	417	405	408	413	405	413	25
26	414	2,310	419	8,180	415	406	420	405	408	418	410	411	26
27	406	412	426	3,280	417	408	417	404	408	418	410	409	27
28	405	415	417	428	425	406	415	405	407	414	413	407	28
29	403	414	410	400		5,240	412	405	403	418	410	408	29
30	401	430	413	402		22,700	415	406	400	425	411	412	30
31	408		412	404		26,300		406		417	406		31
MEAN	407	2,268	411	8,178	410	2,113	6,754	416	405	413	410	410	MEAN
MAX.	416	8,890	426	32,700	425	26,300	37,300	432	415	425	418	414	MAX.
MIN.	401	408	402	400	402	388	399	404	397	404	400	405	MIN.
AC. FT.	25,050	135,000	25,280	502,900	22,750	129,900	401,900	25,590	24,110	25,370	25,190	24,410	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - E AND \*

WATER YEAR SUMMARY

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1,889	37,900		4	4	0815						1,367,000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
39 31 18	121 32 48	SE 8 19N 4E	230,000		3-19-1907	OCT 1901-DATE	OCT 1901-DATE	1912	1934	139.53	USCGS
								1934	1962	182.02	USCGS
								1962	1964	0.00	USCGS
								1964		148.97	USCGS
Station located 300 feet above Fish Barrier Dam, 0.6 mile northeast of Oroville. Flow is regulated by reservoirs and power plants. Flows diverted through Fish Hatchery are included. Maximum discharge listed at site then in use (approximately 167.5 feet, USCGS Datum). Drainage area is 3,626 square miles.											



**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A05975	THERMALITO AFTERBAY RELEASE TO FEATHER RIVER NEAR OROVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2,460	2,530	13,000	11,600	14,300	7,770	17,200	6,060	2,980	2,530	6,980	7,040	1
2	2,480	2,510	13,000	12,400	13,500	10,500	17,200	6,070	2,910	2,970	6,960	7,060	2
3	2,460	2,470	13,000	13,600	13,400	11,400	17,400	6,030	2,950	3,570	6,840	7,080	3
4	2,480	2,460	13,000	13,600	13,400	11,500	17,900	6,010	2,950	3,510	6,790	7,100	4
5	2,490	2,520	12,900	13,100	13,500	11,500	18,100	4,970	2,960	3,520	6,960	7,090	5
6	2,460	2,490	12,900	9,540	11,500	11,500	17,600	4,530	2,960	3,500	6,950	7,120	6
7	2,470	2,480	13,100	10,500	10,100	12,000	17,500	4,520	2,970	3,520	6,980	7,030	7
8	2,490	2,460	13,500	11,500	9,540	12,500	17,500	4,530	2,940	4,510	7,030	6,990	8
9	2,490	2,450	13,500	10,600	8,990	12,500	17,600	4,540	2,920	5,570	7,030	7,050	9
10	2,500	2,450	13,500	9,560	7,030	12,600	17,500	4,560	2,960	6,970	7,030	7,130	10
11	2,480	7,310	12,800	9,550	5,620	12,500	15,100	7,450	2,960	6,910	7,050	7,120	11
12	2,480	14,000	10,600	9,500	5,610	12,500	14,400	7,430	2,970	6,970	7,000	7,100	12
13	2,450	15,200	9,540	9,380	5,590	13,000	14,500	8,210	3,660	6,970	7,150	7,120	13
14	2,460	16,800	6,620	10,200	5,570	13,400	14,500	7,630	5,750	6,910	7,110	7,050	14
15	2,480	16,900	6,490	12,800	5,580	13,400	14,400	7,560	6,960	6,930	7,100	7,010	15
16	2,490	16,900	6,480	13,400	5,510	13,900	14,500	7,550	5,170	6,940	7,120	7,080	16
17	2,480	16,500	6,550	12,700	4,570	14,400	14,400	7,590	2,490	6,930	7,070	7,140	17
18	2,500	16,600	6,550	13,600	4,550	14,400	14,500	7,550	3,550	6,950	7,010	7,140	18
19	2,490	16,500	6,570	17,400	4,580	14,400	14,600	7,560	4,970	6,910	7,070	7,100	19
20	2,480	16,500	6,570	17,500	4,600	14,400	14,600	7,420	4,970	6,850	7,140	7,110	20
21	2,450	16,500	6,510	17,500	4,610	14,400	13,500	6,610	4,940	6,880	7,120	7,060	21
22	2,470	16,500	6,480	17,600	4,580	14,400	13,000	6,080	4,890	6,900	7,130	7,010	22
23	2,520	16,600	6,530	17,700	4,550	14,500	11,600	5,290	4,020	6,940	7,060	7,090	23
24	2,520	16,500	6,510	17,700	5,970	14,500	10,000	4,370	2,980	6,920	7,060	7,150	24
25	2,470	16,500	6,540	17,700	6,610	14,500	8,580	3,220	2,470	6,930	6,990	7,160	25
26	2,470	16,500	6,820	17,700	6,630	13,000	8,580	2,900	2,040	6,970	7,020	7,120	26
27	2,450	14,700	7,600	17,700	6,650	12,500	8,540	2,890	2,030	6,930	7,100	7,110	27
28	2,440	13,000	7,570	17,000	6,640	12,900	7,230	2,960	2,040	6,830	7,140	7,050	28
29	2,480	13,000	7,830	15,700		15,700	6,110	3,020	2,020	6,930	7,140	7,030	29
30	2,510	12,900	10,300	14,600		17,500	6,070	2,990	2,000	7,000	7,140	7,120	30
31	2,510		11,600	14,500		17,400		2,970		6,980	7,070		31
MEAN	2,479	11,020	9,499	13,790	7,617	13,270	13,810	5,518	3,413	5,989	7,043	7,085	MEAN
MAX.	2,520	16,900	13,500	17,700	14,300	17,500	18,100	8,210	6,960	7,000	7,150	7,160	MAX.
MIN.	2,440	2,450	6,480	9,380	4,550	7,770	6,070	2,890	2,000	2,530	6,790	6,990	MIN.
AC. FT.	152,500	656,000	584,100	847,800	423,000	816,000	821,600	339,300	203,100	368,200	433,100	421,600	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 † - E AND \*

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
8,379	19,000	9.17	6,066,000
		4 5 0600	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 27 23	121 38 10	SE 33 19N 3E	21,600		1-28-1970	DEC 1967-DATE	DEC 1967-DATE	1967		0.47	USCGS
Station located in river outlet channel, 5.7 miles southwest of Oroville. Station measures flows released to Feather River through Thermalito Afterbay.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A05165	FEATHER RIVER NEAR GRIDLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2,820	2,810	13,500	12,100	14,900	8,160	47,800	6,750	3,580	3,030	7,440	7,740	1
2	2,840	2,810	13,300	12,600	14,000	10,700	53,000	6,750	3,540	3,490	7,420	7,800	2
3	2,800	2,800	13,200	13,900	13,800	11,500	54,000	6,890	3,560	4,090	7,300	7,820	3
4	2,820	2,800	13,100	13,900	13,800	11,700	52,900	6,870	3,570	4,090	7,270	7,890	4
5	2,830	2,800	13,000	14,000	13,400	11,700	40,800	5,780	3,580	4,090	7,430	7,910	5
6	2,820	2,900	13,000	10,200	11,700	11,800	33,000	5,300	3,570	4,070	7,430	8,000	6
7	2,830	2,880	13,100	10,800	10,300	12,200	30,400	5,240	3,560	4,080	7,500	7,878	7
8	2,840	2,880	13,500	12,100	9,730	12,700	26,500	5,260	3,560	5,030	7,530	7,840	8
9	2,820	2,890	13,400	11,400	9,290	12,700	25,100	5,240	3,580	6,020	7,520	7,900	9
10	2,820	2,900	13,400	10,200	7,650	12,800	20,600	5,230	3,590	7,430	7,530	8,000	10
11	2,800	6,690	13,100	10,200	6,300	12,800	16,900	7,700	3,600	7,490	7,520	7,980	11
12	2,800	14,300	10,900	10,200	6,230	12,800	15,300	7,920	3,590	7,560	7,420	7,950	12
13	2,780	13,000	10,200	10,100	6,230	13,200	15,200	8,620	4,140	7,580	7,610	7,970	13
14	2,760	16,700	7,530	10,700	6,190	13,600	15,100	6,150	6,160	7,560	7,580	7,870	14
15	2,790	16,800	7,160	14,500	6,180	13,700	15,000	8,030	7,500	7,570	7,530	7,800	15
16	2,800	17,300	7,080	21,900	6,130	14,000	14,900	7,980	6,000	7,570	7,550	7,910	16
17	2,800	23,500	7,190	40,200	5,220	14,600	14,900	8,040	3,110	7,560	7,470	7,960	17
18	2,800	25,300	7,140	45,700	5,210	14,500	14,900	7,990	4,030	7,610	7,400	7,970	18
19	2,770	21,700	7,160	47,000	5,250	14,600	14,900	7,970	5,500	7,560	7,410	7,960	19
20	2,770	21,300	7,190	47,100	5,210	14,600	14,900	7,880	5,530	7,470	7,520	8,010	20
21	2,740	21,300	7,180	46,800	5,240	14,500	14,000	7,080	5,490	7,470	7,620	7,970	21
22	2,790	21,300	7,150	43,500	5,180	14,600	13,500	6,620	5,440	7,490	7,740	7,900	22
23	2,820	21,300	7,160	37,400	5,140	14,700	12,200	5,850	4,640	7,540	7,750	7,970	23
24	2,800	21,300	7,130	33,900	6,330	14,700	10,700	5,020	3,600	7,510	7,720	8,020	24
25	2,750	21,300	7,180	33,500	7,060	14,800	9,270	3,950	3,140	7,510	7,660	7,870	25
26	2,750	19,300	7,360	28,400	7,880	13,600	9,190	3,550	2,720	7,520	7,690	7,740	26
27	2,750	15,400	8,310	22,800	7,120	13,000	9,120	3,490	2,650	7,440	7,800	7,680	27
28	2,710	13,400	8,360	18,400	7,210	13,300	7,980	3,560	2,640	7,330	7,620	7,620	28
29	2,720	13,300	8,450	16,700		17,800	6,860	3,600	2,620	7,420	7,800	7,580	29
30	2,810	13,200	10,600	15,300		37,000	6,770	3,590	2,580	7,490	7,820	7,650	30
31	2,810		12,200	15,200		44,200		3,580		7,460	7,720		31
MEAN	2,792	12,941	9,942	22,280	8,102	15,076	21,163	6,099	4,017	6,552	7,568	7,871	MEAN
MAX.	2,840	25,300	13,500	47,100	14,900	44,200	54,000	8,620	7,500	7,610	7,820	8,020	MAX.
MIN.	2,710	2,800	7,080	10,100	5,140	8,160	6,770	3,490	2,580	3,030	7,270	7,580	MIN.
AC. FT.	171689	770852	611365	1369983	450010	926995	1259285	375035	239028	402902	465163	448396	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 # - FLOOD

MEAN
DISCHARGE
10373.3

MAXIMUM
DISCHARGE
54700
GAGE HT.
89.98
MO.
04
DAY
04
TIME
0600

MINIMUM
DISCHARGE
2550.0
GAGE HT.
75.73
MO.
06
DAY
30
TIME
2100

TOTAL
ACRE FEET
7509913

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
39 22 01	121 38 43	SW 33 18N 3E		102.25	12-23-1955	JAN 1944-DATE	MAR 29-MAY 37# OCT 37-APR 39 NOV 39-JUL 40 OCT 40-JUL 43 OCT 43-DATE	1929		0.00
								1929		-2.91
										USED USCGS

Station located near highway bridge 2.7 miles east of Gridley. Subsequent to 1962, tabulations include all left bank overflow. Records of discharge published prior to 1963 listed only that water in the main channel. Drainage area is 3,676 square miles.

# - Flood season only.

TABLE B-5 (Cont.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A05735	NORTH HONCUT CREEK NEAR BANGOR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.2	1.8	1,060 *	129	78	1,930	840	13	5.7	0.4	0.1	0.0	1
2	1.5	1.9	198	79	44	576	291	13	6.4	0.3*	0.0	0.0	2
3	1.6	2.2	121	64	37	244	162	12	7.6	0.3	0.0	0.0	3
4	1.4*	2.1	91	56	33	143	107	12	7.3*	0.5	0.0	0.0	4
5	1.3	2.6	74	53	31	99	78	11	5.4	0.9	0.0	0.0	5
6	1.5	6.6	64	96	28	76	62	11	4.1	0.7	0.2	0.0	6
7	7.5	199	57	157	27	248	50	9.6	2.7	0.8	0.7	0.0	7
8	8.1	89	53	104	25	310	43	8.3	2.3	9.3	1.2	0.0	8
9	5.0	177	59	70	24	135	111	6.7	2.1	14	1.4	0.0	9
10	2.7	533	46	57	22	93	82	5.7	2.0	6.6	1.2	0.0	10
11	1.7	1,120	44	52	21	184	52	5.1	1.9	4.9	1.2	0.0	11
12	1.5	771	47	260	21	413	40	6.0	1.7	3.9	1.7	0.0	12
13	1.4	433	106	159	26	170	32	6.0	1.8	3.1	1.7	0.0	13
14	1.5	311	72	434	22	114	28	6.0	2.0	2.5	1.3	0.0	14
15	1.3	128	53	834	21	84	25	6.1	2.0	2.1	1.0	0.0	15
16	1.3	481 *	45	1,160 *	42	67	24	6.6	2.0	1.8	0.7	0.0	16
17	1.8	640	156	714	36	55	22	6.7	2.1	1.5	1.1	0.0	17
18	1.8	413	143	587	28	47	22	6.8	2.0	1.4*	1.3	0.0	18
19	1.6	194	69	331	338	40	22	7.0	2.4	1.3	1.1	0.0	19
20	1.5	145	57 *	206	112	34	21	6.5	2.7	1.1	0.9	0.0	20
21	1.3	143	286	156	75	30	20	6.0	2.4	0.8	0.8	0.0	21
22	2.5	98	463	124	90	28	19	5.6	2.0	0.6	0.5	0.0	22
23	9.0	83	182	105	54	26	19	5.4	1.4	0.8	0.3	0.0	23
24	6.3	86	140	90	43	25	27	5.8	1.0	1.0	0.1	0.0	24
25	4.0	78	101	80	36	25	30	6.0	1.2	0.7	0.0	0.0	25
26	3.1	68	147	73	32	31	30	6.4	1.1	0.7	0.0	0.0	26
27	2.6	57	979	66	31	305	21	6.2	1.0	0.5	0.0	0.0	27
28	2.4	51	666 *	62	183	489	17	6.4	0.8	0.4	0.0*	0.0	28
29	2.1	47	384 *	38		1,130	15	5.9	0.7	0.3	0.0	0.0	29
30	2.2	209	193	32		1,100	14	5.7	0.5	0.2	0.0	0.1	30
31	1.8		127	40		330		5.8		0.1	0.0		31
MEAN	2.7	219	201	208	55.7	276	77.5	7.4	2.6	2.0	0.6	0.0	MEAN
MAX.	9.0	1,120	1,060	1,160.	338	1,930	840	13.0	7.6	14.0	1.7	0.1	MAX.
MIN.	1.2	1.8	44.0	32.0	21.0	25.0	14.0	5.1	0.5	0.1	0.0	0.0	MIN.
AC. FT.	168	13034	12365	12829	3094	17020	4614	457	155	126	37		AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- E AND \*

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL	
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
88.3	4710	10.18	01	16	2130	0.0	1.99	02	11	0400	63898	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 20 32	121 29 25	SW 11 17N 4E	10,700E	11.57	12-26-1964	OCT 59-SEPT 62 JUL 63-DATE	OCT 59-SEPT 62 JUL 63-DATE	1959 1963	1962	0.00 0.00	LOCAL LOCAL
Station located 0.4 mile north of Honcut-Wyandotte Road and Bangor Highway junction, 5.7 miles southwest of Bangor. Tributary to Feather River. Flow partly regulated by Lake Wyandotte. Drainage area is 47.1 square miles.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A61265	SQUIRREL CREEK NEAR PENN VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	9.1	7.0	699	69	30	830	565	19	12	14	17	15	1
2	8.5	6.0	94	44	22	506	179	18	12	15	18	14	2
3	10	6.0	51	36	20	142	82	18	12	17	16	13	3
4	10	6.2	39	33	19	72	59	16	12	17	15	13	4
5	11	10	33	37	18	54	50	15	12	17	14	14	5
6	11	25	28	85	16	42	45	15	12	17	15	14	6
7	35	309	25	161	16	149	39	15	12	17	14	14	7
8	18	47	22	103	15	138	37	15	11	66	14	14	8
9	12	164	20	64	15	59	40	14	11	52	14	14	9
10	9.4	404	19	47	14	45	36	13	10	26	15	14	10
11	8.4	620	26	44	14	63	31	13	11	23	15	13	11
12	7.2	414	23	189	16	242	28	12	12	26	15	13	12
13	7.0	212	79	112	18	70	25	14	13	24	14	13	13
14	6.7	110	46	273	15	50	24	16	13	23	16	13	14
15	5.2	36	27	343	14	42	23	16	13	21	16	12	15
16	5.0	230	22	243	26	37	22	15	13	20	15	12	16
17	5.4	493	34	311	18	33	20	16	14	21	15	11	17
18	5.2	206	27	307	19	29	19	17	14	20	14	11	18
19	5.6	66	22	157	278	27	19	16	17	20	14	11	19
20	5.3	70	20	81	54	24	19	16	17	19	15	11	20
21	5.9	61	133	56	63	22	20	15	17	18	15	12	21
22	25	44	174	43	67	20	20	14	16	18	14	12	22
23	28	35	51	37	37	20	27	13	15	18	15	12	23
24	11	55	37	32	29	19	37	15	13	20	16	12	24
25	7.9	36	29	29	25	23	27	15	13	19	15	12	25
26	7.2	35	79	26	28	28	24	12	15	19	14	12	26
27	7.3	24	438	23	26	158	22	11	16	18	14	12	27
28	7.1	21	272	22	45	305	21	12	15	18	15	11	28
29	6.6	26	508	21		446	20	12	14	18	16	12	29
30	6.5	283	105	19		523	20	12	14	17	16	12	30
31	7.3		65	23		168		12		18	16		31
MEAN	10.2	135	104	99.0	34.9	141	53.3	14.6	13.4	21.8	15.1	12.6	MEAN
MAX.	35.0	620	699	343	278	830	565	19.0	17.0	66.0	18.0	15.0	MAX.
MIN.	5.0	6.0	19.0	19.0	14.0	19.0	19.0	11.0	10.0	14.0	14.0	11.0	MIN.
AC. FT.	624	8055	6440	6089	1938	8699	3174	897	795	1341	926	750	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
54.9	1960	12.12	11	11	1015	4.1	5.81	10	18	2245	39729

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
39 12 38	121 12 04	SW 28 16N 7E	2,450	12.93	1-12-73	FEB 1972-DATE	FEB 1972-DATE	1972		0.00

Station located 0.4 mile north of Highway 20 on Bridgeport Road, 1.5 miles northwest of Penn Valley. Station established and operated in cooperation with Nevada Irrigation District.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A05120	FEATHER RIVER BELOW SHANGHAI BEND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4,900	5,320	25,000	19,500	20,200	17,600	80,000	11,700	9,240	5,350	10,400	8,890	1
2	4,880	5,290	24,600	18,400	19,600	32,500	88,000	11,500	9,330	5,770	10,300	8,800	2
3	4,870	5,290	21,000	19,000	18,800	25,800	77,400	11,400	8,830	6,240	10,200	8,820	3
4	4,820	5,280	19,700	19,100	18,600	20,000	73,500	11,300	9,560	6,520	10,200	8,820	4
5	4,820	5,370	19,000	19,400	18,300	18,200	61,800	10,800	9,280	6,490	10,300	8,790	5
6	4,800	5,600	18,700	16,700	17,700	18,000	45,300	10,000	8,770	6,450	10,400	8,870	6
7	4,950	5,960	18,500	16,100	15,900	18,100	39,300	9,810	8,590	6,380	10,400	8,850	7
8	4,940	6,350	18,700	17,300	14,700	21,600	36,600	9,690	8,300	7,200	10,400	8,820	8
9	4,900	5,830	18,700	17,100	13,600	20,200	34,100	9,650	8,200	8,400	10,400	8,810	9
10	4,850	7,210	18,500	15,400	12,300	19,200	30,600	9,590	8,180	9,520	10,500	8,940	10
11	4,790	10,600	17,900	15,100	11,500	18,700	25,700	10,700	8,170	10,100	10,400	8,920	11
12	4,730	22,900	16,600	15,700	11,700	20,100	22,000	12,000	8,100	9,910	10,500	8,900	12
13	4,830	22,700	16,000	16,600	10,600	20,700	21,200	12,100	7,800	9,920	10,500	8,890	13
14	4,790	23,400	14,000	16,700	10,500	20,300	21,000	12,600	9,100	9,870	10,600	8,830	14
15	4,520	23,000	12,400	28,000	10,500	20,000	20,800	12,100	11,000	9,940	10,600	8,510	15
16	4,890	23,130	12,100	31,600	10,500	20,100	20,700	11,300	11,300	10,400	10,600	8,590	16
17	5,000	26,900	11,900	40,300	10,200	20,600	20,400	11,600	8,140	10,400	10,600	8,610	17
18	4,970	34,100	11,900	54,600	9,690	20,100	20,300	12,000	7,770	10,500	10,500	8,610	18
19	4,970	31,900	12,100	62,700	10,900	20,000	20,300	12,100	8,860	10,400	10,500	8,610	19
20	4,960	28,400	11,900	70,400	11,600	19,800	20,200	12,100	9,130	10,300	10,600	8,590	20
21	4,910	27,500	12,100	67,700	10,800	19,700	19,600	11,600	8,650	10,200	10,600	8,610	21
22	5,000	26,900	14,700	61,000	10,600	19,700	19,000	10,600	8,570	10,200	10,600	8,610	22
23	5,300	26,600	13,800	48,400	10,500	19,800	17,900	8,240	8,240	10,300	10,500	8,560	23
24	5,210	26,400	13,000	40,900	10,700	19,900	17,100	7,550	7,340	10,300	10,600	8,590	24
25	5,180	26,400	12,500	38,700	11,800	19,900	15,400	8,390	6,540	10,300	10,600	8,610	25
26	5,100	26,100	11,800	36,000	11,900	19,600	14,700	8,080	5,860	10,300	10,500	8,460	26
27	5,140	22,700	15,000	31,800	12,000	19,200	14,500	7,980	5,480	10,300	10,700	8,430	27
28	5,120	19,400	19,700	26,900	12,100	23,000	13,800	7,820	6,490	10,000	10,700	8,360	28
29	5,130	18,500	22,300	23,400	26,300	12,400	26,300	8,230	6,870	10,100	10,700	8,340	29
30	5,230	18,200	23,300	21,000	44,800	11,900	44,800	9,420	5,730	10,300	10,200	8,370	30
31	5,250		20,400	20,400	67,600			9,270		10,300	9,100		31
MEAN	4,959	18,106	16,703	30,512	13,099	22,938	31,183	10,363	8,247	9,118	10,441	8,680	MEAN
MAX.	5,300	34,100	25,000	70,400	20,200	67,000	88,000	12,600	11,300	10,500	10,700	8,940	MAX.
MIN.	4,520	5,280	11,800	15,100	9,690	17,600	11,900	7,550	5,480	5,350	9,100	8,340	MIN.
AC. FT.	304,959	107,7421	102,7041	187,6164	72,7517	141,0446	185,5536	63,7210	49,0750	56,0648	64,2049	51,6515	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
• - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- 1 AMB

WATER YEAR SUMMARY

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
15368.5	90600 58.39 04 02 1015	4030.0 34.62 10 15 2100	11126255

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 04 44	121 36 08	NE 11 14N 3E		76.8	12-24-1955	JUN 44-OCT 55 JAN 46-DATE	NOV 26-MAY 35 # OCT 37-MAY 39 NOV 39-JUL 41 NOV 41-JUL 43 # OCT 43-DATE	1926		0.00 -3.01	USED USCGS
Station located approximately 4 miles south of Yuba City. Flow partly regulated by reservoirs and power plants. Drainage area is 5,337 square miles.											
# - Irrigation season only.											
# - Flood season only.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02903	SACRAMENTO WEIR SPILL TO YOLO BYPASS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	64.8	242	148	0.0	326						1
2		0.0	169	238	133	0.0	403						2
3		0.0	164	207	115	28.8	1,810						3
4		0.0	146	159	102	70.1	1,650						4
5		0.0	110	128	71.5	25.0	1,190						5
6		0.0	89.3	114	8.0	0.0	368						6
7		0.0	72.5	111	0.0	0.0	317						7
8		0.0	57.6	132	0.0	2.4	282						8
9		0.0	26.9	118	0.0	65.8	250						9
10	N	0.0	3.0	29.1	0.0	108	221	N	N	N	N	N	10
11	O	0.0	0.0	0.0	0.0	111	183	O	O	O	O	O	11
12		0.0	0.0	0.0	0.0	104	142						12
13		0.0	0.0	0.0	0.0	103	115						13
14		0.0	0.0	0.0	0.0	89.3	95.0						14
15	F	0.0	0.0	18.4	0.0	45.1	52.8	F	F	F	F	F	15
16	L	142	0.0	202	0.0	0.0	26.9	L	L	L	L	L	16
17		208	0.0	281	0.0	0.0	4.9						17
18	O	250	0.0	386	0.0	0.0	0.0	O	O	O	O	O	18
19		260	0.0	2,080	0.0	0.0	0.0						19
20	W	251	0.0	3,590	0.0	0.0	0.0	W	W	W	W	W	20
21		247	0.0	3,350	0.0	9.1	0.0						21
22		216	0.0	1,020	0.0	14.4	0.0						22
23		140	0.0	316	0.0	12.0	0.0						23
24		120	0.0	280	0.0	4.6	0.0						24
25		118	0.0	260	0.0	0.0	0.0						25
26		99.8	0.0	248	0.0	0.0	0.0						26
27		62.4	42.2	231	0.0	0.0	0.0						27
28		14.4	94.1	214	0.0	0.0	0.0						28
29		0.0	126	193		0.0	0.0						29
30		0.0	203	169		27.8	0.0						30
31			236	154		230							31
MEAN		71.0	51.8	467	20.6	33.9	248						MEAN
MAX.		260	236	3,590	148	230	1,810						MAX.
MIN.		0.0	0.0	0.0	0.0	0.0	0.0						MIN.
AC. FT.		4,222	3,182	28,700	1,145	2,083	14,750						AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
74.7

MAXIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
3,590		1	20

MINIMUM			
DISCHARGE	GAGE HT.	MO.	DAY

TOTAL
ACRE FEET
54,080

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
			118,000 E	32.8	3-26-1928	1926-DATE					
See Sacramento River at Sacramento Weir for stage record and location. Elevation of fixed crest of weir is 24.5* feet, USED Datum; elevation of movable crest (top of needles) is 30.5* feet, USED Datum. There are 48 gates, each 38 feet in length. *From 1964 surveys. Previously listed as 25.0 and 31.0, respectively.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A00047	DRY CREEK AT ROSEVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	18	21	989	370	112	523	518	31	16	22	19	22	1
2	18	21	314	183	94	822	387	33	16	23	19	22	2
3	19	21	173	155	86	455	188	32	16	21	18	21	3
4	18	21	136	209	83	224	148	30	14	22	18	20	4
5	18	26	116	275	79	174	132	29	14	21	18	20	5
6	21	48	100	652	72	153	117	28	13	21	19	20	6
7	34	68	92	712	70	227	105	26	12	20	19	20	7
8	44	51	86	398	69	342	96	25	13	84	20	19	8
9	39	40	83	264	68	151	125	25	12	103	20	20	9
10	33	89	78	204	65	129	90	25	14	65	19	19	10
11	32	196	94	192	64	135	69	25	13	55	20	19	11
12	28	431	99	317	67	359	59	25	13	49	21	19	12
13	27	228	183	207	78	170	51	25	13	43	21	20	13
14	26	348	143	295	95	129	45	24	14	38	20	21	14
15	25	96	94	520	63	112	45	23	14	32	21	21	15
16	25	185	83	389	83	101	41	22	14	30	20	21	16
17	23	459	78	758	80	91	40	22	15	28	20	20	17
18	21	479	71	557	70	83	41	24	16	24	21	19	18
19	21	151	67	464	185	74	46	24	30	24	21	20	19
20	22	120	65	307	100	72	42	22	33	23	21	18	20
21	22	128	183	226	84	70	38	21	29	22	21	19	21
22	50	101	313	175	105	71	36	20	25	20	20	18	22
23	97	92	125	158	77	71	43	19	21	19	19	19	23
24	43	106	102	144	71	71	86	19	20	18	18	20	24
25	38	92	85	133	66	81	64	19	20	19	17	20	25
26	33	79	148	120	59	95	53	17	19	19	18	22	26
27	30	73	576	109	60	149	49	17	19	19	18	23	27
28	28	65	834	106	88	202	43	15	19	19	19	24	28
29	27	65	516	105		249	38	15	21	19	19	25	29
30	24	159	307	98		448	34	17	21	17	21	26	30
31	22		214	99		203		17		17	22		31
MEAN	29.9	135	201	287	80.0	201	95.6	23.1	17.6	30.9	19.6	20.6	MEAN
MAX.	97.0	479	989	758	185	822	518	33.0	33.0	103	22.0	26.0	MAX.
MIN.	18.0	21.0	65.0	98.0	59.0	70.0	34.0	15.0	12.0	17.0	17.0	18.0	MIN.
AC. FT.	1837	6051	12391	17655	4443	12369	5691	1420	1049	1900	1204	1224	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 • - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - - E AND •

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
95.6	1490	9.26	12	01	0930	0.9	2.11	10	05	1915	69233

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 44 47	121 16 57	SE 2 10N 6E	2,370	15.90	1-26-1969	APR 1966-DATE	APR 1966-DATE	1966		0.00	LOCAL
Station located 1,400 feet above Douglas Street bridge. Prior to November 3, 1969, station located 100 feet above Douglas Street bridge. Tributary to Sacramento River via Linda Creek and Back Borrow Pit of Reclamation District 1000.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02100	SACRAMENTO RIVER AT SACRAMENTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	17,200	15,900	63,900	76,500	72,100	39,200	84,000	35,300	26,800	17,800	21,900	24,800	1
2	16,900	16,100	69,200	75,900	71,600	53,300	90,700	32,600	27,000	17,200	21,900	24,800	2
3	16,800	16,100	68,800	72,600	71,000	68,100	91,900	29,500	29,100	17,400	21,800	25,100	3
4	16,900	16,100	67,700	69,200	70,400	70,600	91,800	27,600	29,400	17,800	21,900	24,500	4
5	16,700	16,100	66,000	68,500	69,300	68,800	91,200	26,300	29,600	17,600	22,000	25,200	5
6	16,700	16,500	65,200	68,500	67,300	66,700	87,000	24,900	28,400	17,800	22,200	26,300	6
7	16,800	16,600	64,600	69,100	65,700	66,100	82,800	23,600	27,700	17,800	22,100	26,600	7
8	16,600	17,600	64,100	71,300	64,200	67,800	80,200	25,500	27,200	18,400	22,200	26,900	8
9	16,700	19,200	63,200	68,800	62,000	70,100	77,800	28,600	26,300	21,500	22,300	27,300	9
10	16,900	21,500	62,600	63,000	58,500	71,400	76,200	29,100	25,500	24,200	22,800	27,400	10
11	17,900	25,000	61,700	61,800	54,700	71,400	73,900	29,000	24,700	26,600	23,300	27,600	11
12	18,200	38,800	60,600	60,200	48,500	70,900	71,900	30,700	24,200	27,100	23,800	27,600	12
13	17,000	50,400	59,200	59,200	42,800	70,800	70,800	32,000	23,300	26,700	24,100	27,200	13
14	16,200	59,200	58,300	60,400	43,000	70,100	70,200	32,400	22,700	25,800	24,200	27,000	14
15	16,100	64,700	56,500	65,300	44,800	68,500	68,400	32,600	23,700	24,900	24,300	26,600	15
16	15,800	71,800	54,500	76,000	44,300	65,200	68,000	30,900	25,600	24,300	24,500	26,500	16
17	17,900	75,300	52,500	81,500	44,100	63,000	67,500	29,400	25,200	24,100	24,500	26,500	17
18	18,500	77,000	50,800	90,400	43,600	63,500	66,800	30,900	22,700	23,600	24,500	26,500	18
19	17,900	76,300	49,700	93,400	42,500	64,700	66,100	31,500	23,300	23,200	24,800	26,000	19
20	16,000	75,000	48,400	94,200	42,800	65,400	65,300	32,200	24,400	22,800	24,900	25,200	20
21	15,200	74,100	49,900	94,100	44,300	65,700	63,400	32,200	24,700	22,500	24,900	24,200	21
22	15,500	71,300	51,200	90,700	45,400	65,700	59,100	31,400	24,800	22,400	25,000	23,400	22
23	16,200	66,800	56,600	81,700	45,100	65,700	52,700	29,700	24,400	21,700	25,000	22,900	23
24	16,600	66,000	60,200	79,200	44,000	65,500	46,700	26,100	23,400	21,200	25,100	22,600	24
25	17,000	66,000	63,600	78,000	42,600	64,600	43,000	25,900	22,000	20,900	25,300	22,800	25
26	17,100	64,700	64,500	77,500	41,700	60,700	38,900	27,300	20,700	20,700	25,400	22,700	26
27	16,700	63,200	66,700	76,600	40,900	55,000	37,100	27,500	19,700	21,600	25,300	22,100	27
28	16,200	62,300	67,300	75,600	39,700	51,600	35,300	28,000	18,400	21,800	25,600	22,000	28
29	16,200	61,100	69,700	74,500		53,500	34,100	27,900	18,700	21,600	25,700	21,800	29
30	16,100	60,400	77,000	73,300		64,600	35,700	27,200	18,800	21,600	25,800	21,700	30
31	15,900		76,400	72,600		77,100		26,700		21,700	25,300		31
MEAN	16,720	48,040	61,630	74,830	52,390	64,680	66,280	29,180	24,410	21,750	23,950	25,060	MEAN
MAX.	18,500	77,000	77,000	94,200	72,100	77,100	91,900	35,300	29,600	27,100	25,800	27,600	MAX.
MIN.	15,200	15,900	48,400	59,200	39,700	39,200	34,100	23,600	18,400	17,200	21,800	21,700	MIN.
AC. FT.	1,028,000	2,858,000	3,790,000	4,601,000	2,910,000	3,977,000	3,944,000	1,794,000	1,453,000	1,337,000	1,473,000	1,491,000	AC. FT.

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

**WATER YEAR SUMMARY**

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
42,340	95,000	27.18	1	21	0800						30,660,000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
38 35 20	121 30 15	NW 35 9N 4E	104,000	30.14	11-21-1950	1904-1905 JUN 21-NOV 21 MAY 24-DEC 42# MAY 43-DATE	JAN 04-JUL 05 20-DATE	1904 1956 1956 1965	1956	0.12 0.00 2.98 0.00	USCGS USCGS USED USCGS	
Station located 1,000 feet above I Street bridge, 0.5 mile below the American River. Below approximately 30,000 cfs, the stage-discharge relationship is affected by tidal influence. Maximum discharge listed at site and datum then in use. Records furnished by U. S. Geological Survey. Drainage area is 23,530 square miles.												
# - Irrigation season only.												



TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A81810	MIDDLE CREEK NEAR UPPER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.3*	1,370	244	185	1,140	1,880	40	9.0	1.1	0.0	0.7	1
2	0.0	0.3	540	177	142	752	922	37	8.6	1.1	0.0	0.7	2
3	0.0	0.3	340	177	124	469	585	34	8.2	1.0	0.0	0.7	3
4	0.0	0.3	234	165	110	347	428	32	7.7	0.9	0.0	0.7	4
5	0.0	0.6	162	156	99	280	375	31	12 *	0.9	0.0	0.7	5
6	0.1	0.4	133	140	93	237	301	29	6.9	0.8	0.0	0.5	6
7	0.2	3.0	118	140	86	252	248	28	6.6	0.8	0.0	0.1	7
8	0.0	36	98	165	79	212	223	27	6.2	0.7	0.0	0.3	8
9	0.1	195	86	174	76	187	224	26	5.2	0.7	0.0	0.5	9
10	0.1*	495	75	159	71	177	194	25	4.2	0.7	0.0	0.4	10
11	0.1	934	113	168	67	408	171	23	3.5	0.6	0.0	0.5	11
12	0.2	773	108	352	76	450	154	22	3.3	0.6	0.0	0.0	12
13	0.2	400	490	500	72	354	139	22	3.1	0.6	0.0	0.4	13
14	0.2	321 *	201	585	67	289	125	21	2.9	0.6	0.0	0.4	14
15	0.2	263 *	156	922	63	236	113	20	2.6	0.5	0.0*	1.1	15
16	0.2	872	135	3,880	81	199	103	19	2.4	0.5	0.0	1.1	16
17	0.2	570	159	1,360	69	171	95	18	2.3	0.5	0.0	0.8	17
18	0.1	455	138	817	114	150	92	17	2.3	0.4	0.0	0.1	18
19	0.1	272	130	774	584	138	85	17	2.2	0.4	0.0	0.0	19
20	0.1	216	124	574 *	264	123	78	16	2.1	0.4	0.0	0.0	20
21	0.2	150	445	414 *	220	110	72	15	1.9	0.3	0.0	0.0	21
22	0.6	123	364	336	192	100	67	15	1.8	0.2	0.0	0.0	22
23	0.6	103	272	281	166	90	64	14	1.8	0.2	0.0	0.0	23
24	0.4	94	216	241	148	86	64	14	1.7	0.1	0.0	0.0	24
25	0.3	78	163	213	135 *	100	64	13	1.6	0.1*	0.0	0.0	25
26	0.3	68	216	192	137	96	70	13	1.5	0.3	0.2	0.0	26
27	0.3	62	376	172	130	316	58	12	1.3	0.0	0.5	0.0	27
28	0.3	56	388	153	808	404	51	12	1.3	0.0	0.7	0.0	28
29	0.3	92	480	140		1,840	46	11	1.2	0.0	0.7	0.0	29
30	0.3	1,560	380	126		2,150	43	10	1.2	0.0	0.7	0.0	30
31	0.3		308	167		910		9.5		0.0	0.7		31
MEAN	0.2	273	275	453	159	412	237	20.7	3.9	0.5	0.1	0.3	MEAN
MAX.	0.6	1,560	1,370	3,880	808	2,150	1,880	40.0	12.0	1.1	0.7	1.1	MAX.
MIN.	0.0	0.3	75.0	126	63.0	86.0	43.0	9.5	1.2	0.0	0.0	0.0	MIN.
AC. FT.	12	16251	16935	27896	8842	25335	14150	1274	231	30	7	19	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - - E AND \*

MEAN
DISCHARGE
153.3

MAXIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
6286	14.28	01	16
		1000	

MINIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
0.0	4.72	10	01
		0000	

TOTAL
ACRE FEET
110982

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 10 59	122 54 39	NEL 15N 10W				OCT 48-SEP 53 MAR 59-SEP 59 AUG 62-DATE	OCT 48-DATE	1959	1962	1353.6 0.00	USGS LOCAL
Station located at Ranchers Road bridge, 1.3 mi. N of Upper Lake. Tributary to Clear Lake. Flow affected by upstream diversion. Drainage area is 48.5 sq. mi.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A81845	SCOTTS CREEK AT EICKHOFF ROAD NEAR LAKEPORT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0 *	1650	180	131	2000	1350	14	0.2	0.0	0.0	0.0	1
2	0.0	0.0	550	140	110	1100	773	13	0.1	0.0	0.0	0.0	2
3	0.0	0.0	319	137	99	573	472	11	0.1	0.0	0.0	0.0	3
4	0.0	0.0	226	129	90	377	339	9.6	0.1	0.0	0.0	0.0	4
5	0.0	0.0	173	121	83	289	289 *	8.4	0.0 *	0.0	0.0	0.0	5
6	0.0	0.0	136	114	76	239	231	7.6	0.0	0.0	0.0	0.0	6
7	0.0	0.0	113	113	70	238	193	6.7	0.0	0.0	0.0	0.0	7
8	0.0	0.0	95	131	65	198	173	5.9	0.0	0.0	0.0	0.0	8
9	0.0	68	78	132	63	165	208	5.0	0.0	0.0	0.0	0.0	9
10	0.0 *	363	66	124	60	150	164	4.4	0.0	0.0	0.0	0.0	10
11	0.0	764	116	140	58	350	141	3.8	0.0	0.0	0.0	0.0	11
12	0.0	655	104	361	68	399	124	3.2	0.0	0.0	0.0	0.0	12
13	0.0	428	320	624	76	322	111	2.7	0.0	0.0	0.0	0.0	13
14	0.0	300 *	204	1190	60	262	102	2.4	0.0	0.0	0.0	0.0	14
15	0.0	172 *	151	1760	57	218	92	2.1	0.0	0.0	0.0 *	0.0	15
16	0.0	808	122	4500	87	185	83	1.8	0.0	0.0	0.0	0.0	16
17	0.0	572	135	1490	75	156	75 *	1.6	0.0	0.0	0.0	0.0	17
18	0.0	459	109	918	103	134	66	1.5	0.0	0.0	0.0	0.0	18
19	0.0	215	91 *	753	682	120	61	1.4	0.0	0.0	0.0	0.0	19
20	0.0	158	91	530 *	297	109	55	1.1	0.0	0.0	0.0	0.0	20
21	0.0	122	545	386	244	98	50	1.0	0.0	0.0	0.0	0.0	21
22	0.0	114	438	301	193	89	45	0.9	0.0	0.0	0.0	0.0	22
23	0.0	108	285	248	155	81	41	0.8	0.0	0.0	0.0	0.0	23
24	0.0	116	218	211	131	74	39	0.6	0.0	0.0	0.0	0.0	24
25	0.0	98	173	183	117 *	93	37	0.5	0.0	0.0	0.0	0.0	25
26	0.0	82	225	158	115	85	37	0.4	0.0	0.0 *	0.0	0.0	26
27	0.0	72	472	138	108	336	31	0.4	0.0	0.0	0.0	0.0	27
28	0.0	65	489	126	1500	394	25	0.3	0.0	0.0	0.0	0.0	28
29	0.0	125	385	117		2300	19	0.3	0.0	0.0	0.0	0.0	29
30	0.0	1880	288	108		2200	16	0.2	0.0	0.0	0.0	0.0	30
31	0.0		225	123		902		0.2	0.0	0.0	0.0	0.0	31
MEAN	0.0	258	277	506	178	459	181	3.6	0.0	0.0	0.0	0.0	MEAN
MAX.	0.0	1880	1650	4500	1500	2300	1350	14.0	0.2	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	66.0	108	57.0	74.0	16.0	0.2	0.0	0.0	0.0	0.0	MIN.
AC. FT.	0.0	15360	17042	31110	9860	28240	10794	224	1.0	0.0	0.0	0.0	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	DISCHARGE	MAXIMUM	GAGE HT.	MO.	DAY	TIME	DISCHARGE	MINIMUM	GAGE HT.	MO.	DAY	TIME	TOTAL
156	11100	13.38	1	16	0830		0.0	0.47	10	1	0000		106545

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 05 44	122 57 38	NW3 14N 10W	11100	13.38	1/16/74	MAR 68-DATE	MAR 68-DATE	1968		0.00	LOCAL
Station located at Eickhoff Road Bridge 4.2 mi. NW of Lakeport. Tributary to Clear Lake via Middle Creek. Flow affected by upstream diversions. Daily flow for January are total flows and include water bypassing station due to levee breaks as follows: January 16, 1,660 cfs, February 28, 240 cfs, March 1, 260 cfs, March 29, 470 cfs, and March 30, 440 cfs.											
* Maximum discharge includes 7,500 cfs bypassing station due to levee breaks. Drainage area is 55.2 sq. mi.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A81940	CLOVER CREEK BYPASS NEAR UPPER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1						371	652						1
2						444	542						2
3						356	332						3
4						247	168						4
5						158							5
6						105							6
7						114							7
8													8
9													9
10													10
11		340				112							11
12		353				221							12
13		197	116	146		234							13
14		190	106	310		171							14
15		148		642		107							15
16		401		2250									16
17		297		1040									17
18		301		454									18
19		168		349	149								19
20		118		221	170								20
21		104	192	117	127								21
22			278		103								22
23			159										23
24													24
25													25
26													26
27			193										27
28			242										28
29			230			344							29
30			189			983							30
31			127			652							31
MEAN MAX. MIN. AC. FT.					FLOWS OF LESS THAN 100 DAILY MEAN CFS NOT PUBLISHED								MEAN MAX. MIN. AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
	2,990	6.92	1	16	1215						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 10 33	122 54 00	SE6 15N 9W	4970	7.64	1/23/70	NOV 59-SEP 66 OCT 68-DATE	NOV 59-DATE	1959		0.00	LOCAL
Station located 0.2 mi. above Lake Pillsbury Road bridge, 0.8 mi. N of Upper Lake. Tributary to Clear Lake vis Middle Creek. Flows of less than 100 daily mean cfs not published.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A81250	BEAR CREEK NEAR RUMSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.5	1.7	312	58	95	1,130	424	41	16	5.1	2.0	1.9	1
2	1.3	1.8	133	50	77	485	217	40	16	4.8	2.1	1.8	2
3	1.3	1.8	81	57	70	212	160	40	16	4.6	2.0	1.7	3
4	1.2	1.8	63	67	67	146	138	38	16	4.7	1.9	1.6	4
5	1.2*	2.8	54	68	63	124	132	37	15	4.6	1.9	1.6	5
6	1.4	4.8	47	74	57	115	121	36	15	4.7	1.9	1.6	6
7	1.8	5.3	42	83	56	267	108	35	14	4.9	1.8	1.6	7
8	2.0	6.7	39	94	53	197	103	34	13	7.4	1.7	1.4	8
9	2.5	5.4	36	90	52	117	111	32	13	9.2	1.8	1.4	9
10	2.2	11	34	78	52	104	100	31	12	6.2	1.7	1.5	10
11	1.8	194	38	95	50	121	88	31	12	5.4	1.7	1.6	11
12	1.7	462	42	365	53	139	80	29	11	5.1	2.1	1.9	12
13	1.6	102	101	943	54	115	75	24	11	4.8	2.3	1.5	13
14	1.5	117	65	806	48	98	71	24	10	4.5	2.2	1.5	14
15	1.5	70	45	788	45	92	69	22	9.2	4.1	2.1	1.5	15
16	1.5	329	39	1,870	50	89	66	21	9.2	4.0	2.0	1.6	16
17	1.5	317	40	562	45	84	64	21	9.9	4.1	1.9	1.6	17
18	1.5	239	39	453	45	81	63	22	11	3.9	1.9	1.6	18
19	1.5	80	34	390	207	73	62	22	11	3.6	1.9	1.5	19
20	1.5	54	31	276	82	69	59	22	12	3.2	1.9	1.5	20
21	1.7	46	324	226	61	66	56	25	11	3.0	1.9*	1.4	21
22	3.2	38	272	189	53	65	54	25	9.6	2.9	1.9	1.5	22
23	8.7	33	87	167	47	63	54	23	8.5	2.8	2.0	1.5	23
24	6.0	28	65	148	44	61	58	21	8.1	2.8	1.8	1.6	24
25	3.1	25	55	134	43	70	60	20	7.5	2.7	1.8	1.5	25
26	2.4	24	60	119	42	69	54	18	7.3	2.6	1.8	1.4	26
27	2.2	21	180	105	41	70	52	17	7.1	2.5	1.6	1.5	27
28	2.0	20	103	98	968	105	48	17	7.0	2.3	1.6	1.5	28
29	1.8	19	78	93		723	45	16	6.6	2.2	1.6	1.5	29
30	1.6	270	66	88		1,020	43	15	5.6	2.1	1.8	1.6	30
31	1.6		59	91		243		17		2.0	1.9		31
MEAN	2.1	84.4	85.9	281	93.6	206	94.5	26.3	11.0	4.1	1.9	1.6	MEAN
MAX.	8.7	462	324	1,870	968	1,130	424	41.0	16.0	9.2	2.3	1.9	MAX.
MIN.	1.2	1.7	31.0	50.0	41.0	61.0	43.0	15.0	5.6	2.0	1.6	1.4	MIN.
AC. FT.	132	5820	5284	17306	5197	12720	5623	1619	650	252	116	93	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 \*\* - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
74.6	4650	8.85	01	16	1215	1.2	1.05	10	03	0545	54016

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 56 47	122 20 48	SW 30 13N 4W	9,270	11.93	1-5-1965	SEPT 1955-DATE	SEPT 1955-DATE	1955		0.00	LOCAL
Station located 7.3 miles northwest of Rumsey, 1.4 miles above mouth. Tributary to Cache Creek. Drainage area is 100 square miles.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A81200	CACHE CREEK ABOVE RUMSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	77	23	5,390	1,880	3,340	8,380	8,300	411	665	689	651	386	1
2	90	22	2,110	1,900	3,190	6,740	7,300	382	673	705	701	366	2
3	95	21	1,340	2,490	3,080	5,280	6,550	373	670	710	666	347	3
4	96	20	999	2,560	2,440	4,670	5,510	385	674	710	643	336	4
5	99	25	805	2,500	1,470	4,130	5,140	414	681	742	616	316	5
6	101	40	665	2,520	1,420	3,860	4,820	476	697	751	587	283	6
7	108	101	569	2,490	1,950	4,310	4,610	601	662	751	562	273	7
8	107	170	499	2,410	567	3,920	4,320	681	662	742	551	300	8
9	120	161	445	2,390	456	3,800	4,300	810	670	722	554	305	9
10	205	651	397	2,340	441	3,710	4,200	850	701	662	533	302	10
11	46	2,100	515	2,360	426	4,100	4,170	836	706	601	520	268	11
12	40	2,590	940	3,010	425	4,760	4,100	787	732	510	520	252	12
13	78	1,120	1,310	4,270	436	4,300	3,980	757	734	461	517	250	13
14	87	1,300	1,260	4,650	403	4,050	3,900	736	740	500	517	214	14
15	85	949	1,250	7,900	390	3,650	3,980	697	710	551	517	206	15
16	60	2,600	1,530	12,600	399	3,500	3,810	666	767	601	510	204	16
17	48	2,200	1,620	8,700	409	3,400	3,400	638	775	651	500	203	17
18	48	2,100	1,620	6,210	396	2,500	2,600	665	780	670	490	131	18
19	46	1,100	1,540	5,420	1,390	1,350	1,810	698	780	710	490	132	19
20	39	849	1,480	4,490	993	1,300	1,100	728	771	718	486	189	20
21	41	701	2,440	4,440	1,170	1,200	780	792	742	710	486	186	21
22	55	551	3,220	4,420	1,770	1,200	681	778	689	705	479	188	22
23	70	480	2,320	4,370	1,730	1,250	643	739	651	685	464	188	23
24	40	399	2,070	4,340	1,750	1,270	1,200	673	635	662	460	170	24
25	37	333	1,880	4,100	1,790	1,290	1,380	688	643	620	431	169	25
26	35	312	1,820	3,870	1,810	1,360	1,380	708	651	590	431	157	26
27	32	280	2,520	3,660	1,630	1,560	1,370	699	670	594	465	141	27
28	29	262	2,320	3,540	5,280	2,530	1,320	680	670	580	490	122	28
29	27	252	2,210	3,470		6,750	601	681	662	580	469	124	29
30	25	2,740	2,110	3,370		13,100	454	705	666	601	439	123	30
31	24		1,970	3,300		7,700		666		620	393		31
MEAN	67.4	815	1,650	4,063	1,462	3,900	3,257	658	697	648	520	227	MEAN
MAX.	205	2,740	5,390	12,600	5,280	13,100	8,300	850	780	751	701	386	MAX.
MIN.	24.0	20.0	397	1,880	390	1,200	454	373	635	461	393	122	MIN.
AC. FT.	4145	48500	101482	249858	81225	239841	193803	40463	41512	39876	32009	13549	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 ± - 8 AND 8

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1500.4	13100	13.94	03	30	0000	15.0	2.09	10	12	1245	1086263

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 54 47	122 16 14	SE 2 12N 4W	43,400	19.59	1-24-1970	OCT 59-SEPT 63 JUN 65-DATE	OCT 59-DATE	1959		0.00	LOCAL
Station located 0.4 mile below State Highway 16 bridge, 2.5 miles northwest of Rumsey. Flow regulated by Clear Lake. Drainage area is 955 square miles.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A95010	POPE CREEK NEAR POPE VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.2	0.4	860 *	127	155	2,160	1,610	39 *	11	3.5	6.3	6.2	1
2	0.1	0.4	256	104	111	1,310	1,170	36	10	3.1	6.1	11	2
3	0.1	0.4	159	154	97	596	640	37	10	3.1	5.0	12	3
4	0.1	0.4	119 *	315	90	367	432	35	9.4	3.2	5.6	6.0 *	4
5	0.1 *	1.7	95	214 *	83	284	316	33	9.0	3.0	5.6	4.7	5
6	0.1	89	78	220	77	239	250	26	8.8	2.6	5.6	7.8	6
7	0.4	162	68	234	73	329	212	26	8.1	2.6	5.1	7.3	7
8	0.5	202	60	199	69	264	191	27	7.4	4.4	5.1	6.6	8
9	0.5	108	54	170	66	200	220	23	7.1	5.4	5.1	5.6	9
10	0.4	293	48	147	65	176	174	21	7.1	5.0	5.0	4.9	10
11	0.4	631	82	152	82	349	150	19	6.9	5.5	3.7	4.4	11
12	0.3	1,120	77	369	75	584	131	17	7.6	3.7	2.1	4.1	12
13	0.3	644	247	505	75	379	111	16	7.6	3.7	1.7	4.0	13
14	0.3	780	127	1,050	64	267	102	15	7.1	5.8	1.3	4.0	14
15	0.3	483	90	1,080	60	220	94	16	7.1	7.2	0.7	4.1	15
16	0.3	736	74	1,680	67	190	88	17	6.5	6.9	0.5	4.6	16
17	0.4	857	96 *	972	62	168	83	14	6.6	5.1	1.4	4.6	17
18	0.4	864	80	1,090	60	148	78	19	6.8	5.0	1.1	4.1	18
19	0.4	580	64	728	643	130	74	16	7.2	6.1	1.8	3.8	19
20	0.4	381	59	452	214	115	67	16	7.4	11	2.7 *	3.6	20
21	0.5	276	477	320	157	100	63	15	7.0	8.1	2.4	3.4	21
22	1.0	191	390	262	130	94	60	16	5.6	6.4	2.6	4.4	22
23	20	140	190	224	107	86	60	15	5.7	4.6	3.2	6.4	23
24	24	104	140	193	93	82	64	12	5.5	4.3	4.4	6.4	24
25	9.7	80	115	172	84	102	60	13	5.0	4.8	5.7	6.4	25
26	4.2	66	139	152	79	101	62	13	5.1	4.9	5.1	6.4	26
27	2.1	55	296 *	136	74	315	55	12	5.0	4.9	4.6	6.7	27
28	1.4	47	223	125	2,190	512	52	12	4.9	5.4	4.8	5.6	28
29	1.0	42	267	115		1,830	42	12	4.4	5.4	5.0	5.6	29
30	0.6	493	193	107		2,370	42	13	4.1	6.2	4.1	5.9	30
31	0.4		151	120		659		11 *		6.4	5.0		31
MEAN	2.3	314	173	383	185	475	225	19.7	7.0	5.1	3.8	5.7	MEAN
MAX.	24.0	1,120	860	1,680	2,190	2,370	1,610	39.0	11.0	11.0	6.3	12.0	MAX.
MIN.	0.1	0.4	48.0	104	60.0	82.0	42.0	11.0	4.1	2.6	0.5	3.4	MIN.
AC. FT.	141	10699	10659	23595	10278	29213	13394	1214	419	313	235	338	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 ± - F AND °

MEAN	MAXIMUM					MINIMUM				
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME
149.9	5960	12.31	03	30	0100	0.1	2.59	10	01	2300

TOTAL
ACRE FEET
108497

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 37 48	122 19 52	SW 17 9N 4W	18,000 E	19.79	1-31-1963	DEC 1960-DATE	DEC 1960-DATE	1960		0.00	LOCAL
Station located 5.2 miles east of Pope Valley. Tributary to Lake Berryessa. Drainage area is 78.3 square miles.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A09115	PUTAH CREEK, SOUTH FORK, NEAR DAVIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.8	7.3	135	19	912	2,590	6,840	211	23	14	9.4	3.0	1
2	3.1	7.5	141	18	873	5,000	6,400	163	23	12	6.8	3.9	2
3	3.1	8.0	49	19	767	5,220	5,000	148	18	13	4.8	4.8	3
4	3.1	11	23	73	669	4,770	5,440	97	17	11	5.4	4.0	4
5	3.2	14	17	102	623	4,210	4,620	70	16	15	5.4	3.9	5
6	2.9	17	16	78	529	3,650	4,180	48	17	12	6.0	4.6	6
7	4.0	15	15	79	516	3,320	3,660	40	17	15	4.9	5.2	7
8	3.8	13	17	72	542	3,060	3,230	36	15	23	3.6	4.9	8
9	4.0	14	21	67	554	2,700	2,930	38	16	19	2.2	8.6	9
10	4.2	18	23	45	518	2,510	2,400	43	18	15	4.0	11	10
11	4.2	19	27	33	466	2,260	1,340	39	22	12	7.2	9.8	11
12	4.3	23	23	28	639	2,380	1,300	32	19	15	8.1	7.3	12
13	4.0	20	17	34	548	2,460	1,220	35	24	10	8.9	6.3	13
14	3.9	21	17	79	612	2,430	1,110	33	21	7.1	7.3	6.2	14
15	4.5	27	17	100	612	2,270	1,030	28	15	8.3	8.9	5.7	15
16	5.1	44	17	457	606	2,060	897	27	14	14	8.6	6.4	16
17	6.7	47	17	3,070	575	1,870	776	27	19	16	8.1	8.7	17
18	7.7	73	17	3,450	509	1,790	788	27	17	19	8.0	11	18
19	7.8	42	17	3,870	497	1,720	859	30	16	17	8.3	9.3	19
20	7.0	19	17	3,760	720	1,510	523	31	20	12	7.9	9.0	20
21	6.3	17	24	3,400	765	1,390	477	27	24	8.7	5.2	10	21
22	12	16	21	2,930	719	1,260	352	26	16	9.8	2.2	11	22
23	12	16	18	2,570	669	1,120	365	25	14	14	1.1	12	23
24	9.1	16	17	2,240	521	995	366	22	16	10	0.6	12	24
25	7.7	18	17	2,040	523	978	359	19	14	7.7	0.2	11	25
26	8.6	16	22	1,840	526	989	353	24	15	15	0.4	11	26
27	9.9	16	30	1,700	509	1,020	314	26	16	15	0.5	13	27
28	8.1	16	41	1,540	551	1,260	302	22	17	13	0.6	13	28
29	7.3	16	47	1,280		1,750	277	19	16	15	0.7	16	29
30	7.2	33	27	1,110		5,410	238	19	17	15	0.7	17	30
31	7.3		20	1,020		7,190		25		10	2.1		31
MEAN	6.0	21.3	29.9	1,197	609	2,617	1,931	47.0	17.7	13.3	4.8	8.7	MEAN
MAX.	12.0	73.0	141	3,870	912	7,190	6,840	211	24.0	23.0	9.4	17.0	MAX.
MIN.	2.8	7.3	15.0	18.0	466	978	238	19.0	14.0	7.1	0.2	3.0	MIN.
AC. FT.	367	1269	1839	73632	33858	160943	114934	2899	1055	818	294	515	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
542.0	7580	15.40	03	30	2330	0.1	2.31	08	26	0615	392414

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 31 02	121 45 21	NE 28 8N 2E	14,700	18.48	1-24-1970	OCT 1957-DATE	OCT 1957-DATE	1957		24.57	USCGS
Station located at low water bridge, 0.8 mile below U. S. Highway 40 bridge, 2.3 miles southwest of Davis. Tributary to Yolo Bypass. Treatment plant at the University of California at Davis discharges into the channel 100 feet upstream from gage. There is little or no flow 1,000 feet upstream from station during periods of heavy upstream diversion.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A02935	YOLO BYPASS NEAR WOODLAND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	9.0 *	3.7	8,350	29,500	27,100	5,900	72,100	595	31	7.2	15	14	1
2	7.8	3.7	23,200	27,100	23,500	9,900	125,000	311	31	2.2	4.4	27	2
3	5.6	3.7	28,000	22,800	19,900	10,200	143,000	270	48	1.8	2.0	52	3
4	3.7	3.3	31,000	20,800	17,100	12,100	141,000	160	60	3.0	2.0	46	4
5	3.7	1.8	26,500	17,100	14,700 *	9,560	129,000	95	56	5.0	2.0	44	5
6	3.3	3.7	21,700	14,200	9,840	6,520	105,000	80	60	6.2	2.1	35	6
7	3.7	3.7	18,200	11,100	6,120	4,910 *	77,200	75	58	5.2	1.9	34	7
8	3.7	4.6	15,800	9,100	4,200	4,860	59,800*	72	58	7.6	1.1	35	8
9	3.7	4.6	13,900	7,660	2,680	5,160	44,800	70	30	18	1.1	39	9
10	3.3	5.1	11,800	5,800	1,670	6,680	34,600	70	22	35	.9	52	10
11	3.3	20	9,500	4,150	1,340	7,690	26,000	72	10	33	.5	56	11
12	3.3	52	6,300	3,750	1,100	7,200	19,800	75	5.6	34	.4	53	12
13	3.3	1,930	3,450	4,390	956	7,100	15,300	85	7.0	33	.4	53	13
14	3.3	2,580	2,600	5,920	853 *	6,750	12,900	300 *	9.0	31	3.5	50	14
15	3.3	3,720	880	7,660	760	5,260	11,100	403	11	27	9.0	48	15
16	3.3	9,810 *	960	15,800	703	4,330	9,700	335	14	11	9.3	46	16
17	3.3	19,400	1,050	47,600	688	4,090	7,660*	200	22	3.2	11	50	17
18	3.7	30,300	1,100	93,400	622	3,970	5,500	100	33	3.0	10	53	18
19	3.7	39,500	1,070	144,000	622	3,790	3,920	78	39	2.9	11	56	19
20	3.7	38,600	1,050	158,000	1,110	3,700	2,850	74	61	2.6	18	70	20
21	3.0	36,000	1,100	154,000	1,440	3,950	1,600	84	74	2.3	22	80	21
22	3.7	27,100	2,550	138,000*	1,300	4,120	1,010	84	72	2.6	14	84	22
23	4.6	19,600	1,750	114,000	2,060	4,120	739	78	33	2.9	9.3	80	23
24	3.3	17,600	1,450	95,800	2,150	3,920	610	74	12	2.6	8.0	76	24
25	3.7	16,800	1,350	82,500	2,130	3,420	1,080	22	15	2.4	9.3	76	25
26	3.7	17,300	5,560 *	73,900	2,100	3,500	1,670	8.8	21	2.2	14	69	26
27	4.6	16,200	6,280	64,300	2,090	2,530	2,120	12	27 *	2.0	13	56	27
28	18	13,300	10,800	54,100	2,000	2,470	1,980	15	26	2.1	9.6	53	28
29	12	9,160	14,800	43,000		3,290	1,540	20	21	6.6	7.8	47	29
30	4.1	6,180	21,300	35,800		8,760	960	17	17	7.0	7.6	29	30
31	3.3		26,200	30,100		27,400		25		11	9.3		31
MEAN	4.7	10,840	10,310	49,530	5,387	6,360	35,320	128	32.8	10.2	7.4	52.1	MEAN
MAX.	18	39,500	31,000	158,000	27,100	27,400	143,000	595	74	35	22	84	MAX.
MIN.	3.0	1.8	880	3,750	622	2,470	610	8.8	5.6	1.8	.4	14	MIN.
AC. FT.	289	645,000	633,800	3,045,000	299,200	391,000	2,102,000	7,850	1,950	626	455	3,100	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
9,849	160,000	29.35	1	20	1200						7,130,000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 40 40	121 38 35	SE 28 10N 3E	272,000	32.00	2-18-1942	MAR 30-OCT 38# JAN 1939-DATE	1940-1941# 1941-DATE	1930 1941 1941	1941	0.73 0.00 -3.41	USED USED USCGS
Station located just above the Sacramento-Woodland Railroad bridge, 6 miles above the Sacramento Bypass, 7 miles below Fremont Weir, 7 miles east of Woodland. Supplementary water stage recorder, located 7 miles downstream, used for computations during periods of low flow. Stage-discharge relationship at supplementary recorder location at times affected by tidal action. Records furnished by U. S. Geological Survey.											
8 - Irrigation season only. # - Flood season only.											



**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	807020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1760	2960	2900	5830	8600	3420	6470	4210	4920	1840	1300	2170	1
2	1660	2910	2930	5760	8360	3460	6880	3910	5130	1700	1300	2300	2
3	1800	2580	2960	5770	7880	4510	7820	3890	5370	1600	1260	2260	3
4	2060	2400	2960	6360	7320	5070	8100	3970	5340	1570	1340	2220	4
5	2910	2240	2960	6800	6750	4900	7960	4080	5100	1630	1380*	2220	5
6	2900	2110	2990	6890	6670	4920	8350	4180	4930	1620	1310	2210	6
7	2450	2060	2990	6940	6350	5520	8530	3950	4930	1600	1260	2220	7
8	2900	1810*	3000	7070*	5910	6020	8300	3620*	4910	1700	1340	2360	8
9	3000	1700	2990	7830	5550	6240	7600	4080	5230	1760*	1370	2400	9
10	2820	1770	2910*	8110	5380	6190	7120	4510	5670	2040	1380	2280*	10
11	2830	1860	2870	8200	4930	5800	6650*	4960	5730	2160	1370	2390	11
12	2770	1870	2860	8290	4490*	5490	6400	5170	4880	2070	1430	2560	12
13	2650	1870	2910	7980	4670	5360	6380	5070	3970	2000	1320	2500	13
14	2520	1890	2920	7180	4970	5180	6430	4900	3750	2070	1290	2450	14
15	2430	1910	2860	6450	5070	4860	6250	5040	3310	1970	1380	2420	15
16	2230*	1920	3200	6740	4950	4380	5880	5390	3840	1740	1590	2400	16
17	2190	1930	3460	6770	4530	4200	5530	5440	4400	1610	1700	2420	17
18	2520	1960	3460	6840	4140	4090	5300	5350	4370*	1520	1820	2680	18
19	2740	1980	3500	7710	3670	3990	5290	5240	3890	1410	1880	3150	19
20	2900	2110	3520	8290	3500	4060	5290	5080	3360	1400	1840	3500	20
21	2950	2390	3550	8180	3540	4000	5110	4620	2800	1520	1810	3630	21
22	2620	2710	3780	8050	3670	3900	4580	3760	2500	1550	1740	3620	22
23	2340	2770	3910	8820	3760	3850	4230	3020	2360	1410	1810	3650	23
24	2180	2590	3910	8990	3730	3780	3570	2700	2400	1340	1820	3480	24
25	2450	2440	3840	9380	3650	3850	3340	2560	2330	1400	1970	3520	25
26	2700	2500	3770	9650	3500	3920	3180	2460	2350	1430	2050	3630	26
27	2910	2610	3870	9700	3550	4870	3100	2390	2220	1470	2000	3640	27
28	2950	2780	4730	9330	3530	5490	3650	2260	2070	1440	1910	3670	28
29	2610	2900	6420	8830		5940	4040	3120	1900	1430	1990	3660	29
30	2370	2900	6320	9340		5910	4170	3830	1840	1410	2020	3760	30
31	2820		5930	9140		6160		4540		1320	2080		31
MEAN	2546	2281	3586	7781	5094	4817	5850	4106	3860	1636	1615	2846	MEAN
MAX.	3000	2960	6420	9700	8600	6240	8530	5440	5730	2160	2080	3760	MAX.
MIN.	1660	1700	2860	5760	3500	3420	3100	2260	1840	1320	1260	2170	MIN.
AC. FT.	156600	135700	220500	478500	282900	296200	348100	252500	229700	100600	99290	169300	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - R AND \*

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
3826		9810	19.16	1	27	0700	1260		8	3		2770000	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE				
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE			FROM	TO			
37 40 34	121 15 55	NW 13 3S 6E	79,000	32.81	12-9-1950	JUL 22-DEC 23 8	JUL 22-DEC 23 8	1931	1959	5.06	USCGS	
						JAN 24-FEB 25	JAN 24-FEB 25	1959		0.00	USCGS	
						JUN 25-OCT 28 8	JUN 25-OCT 28 8	1959		3.3	USED	
						MAY 29-DATE	MAY 29-DATE					

Station located on left bank 12 feet downstream from Durham Ferry highway bridge, 2.6 miles downstream from Stanislaus River, and 3.2 miles northeast of Vernalis. Maximum discharge listed at site then in use and present datum. Records furnished by U. S. Geological Survey. Drainage area is 13,540 square miles.

8 - Irrigation season only.

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B02920	DUCK CREEK DIVERSION NEAR FARMINGTON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	0.0			26						1
2			0.0	0.0			81						2
3			0.0	0.0			0.0						3
4			0.0	0.0			0.0						4
5			0.0	0.0			0.0						5
6			0.0	19			0.0						6
7			0.0	0.0			0.0						7
8			0.0	0.0			0.0						8
9			0.0	0.0			0.0						9
10	N	N	0.0	0.0	N	N	0.0	N	N	N	N	N	10
11	O	O	0.0	0.0	O	O	0.0	O	O	O	O	O	11
12			0.0	0.0			0.0						12
13			0.0	0.0			0.0						13
14			0.0	0.0			0.0						14
15	F	F	0.0	0.0	F	F	0.0	F	F	F	F	F	15
16	L	L	0.0	0.0	L	L	0.0	L	L	L	L	L	16
17			0.0	0.0			0.0						17
18	O	O	0.0	0.0	O	O	0.0	O	O	O	O	O	18
19			0.0	0.0			0.0						19
20	W	W	0.0	0.0	W	W	0.0	W	W	W	W	W	20
21			0.0	0.0			0.0						21
22			28	0.0			0.0						22
23			0.0	0.0			0.0						23
24			0.0	0.0			0.0						24
25			0.0	0.0			0.0						25
26			0.0	0.0			0.0						26
27			274	0.0			0.0						27
28			116	0.0			0.0						28
29			0.0	0.0			0.0						29
30			0.0	0.0			0.0						30
31			0.0	0.0			0.0						31
MEAN			13.5	0.6			3.6						MEAN
MAX.			274	19			81						MAX.
MIN.			0.0	0.0			0.0						MIN.
AC. FT.			829	38			212						AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	TOTAL ACRE FEET
1.5	670		12	27		0.0					1079

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 56 18	120 59 21	NE 16 1N 9E	3,690	7.65	4-2-1958	SEPT 1951-DATE	SEPT 1951-DATE	1951		105.0	USCGS
Station located 1.0 mile northeast of Farmington. Flows are diversions from Duck Creek to Littlejohn Creek. Records furnished by U. S. Corps of Engineers. Drainage area is 28 square miles.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B02870	LITTLEJOHN CREEK AT FARMINGTON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	48	20 E	20 E	410	48	21	346	20 E	10 E	10 E	5 E	5 E	1
2	37	20 E	126	358	43	473	698	20 E	10 E	10 E	5 E	5 E	2
3	25 E	20 E	118	273	40	1,340	1,002	20 E	10 E	10 E	5 E	5 E	3
4	25 E	20 E	101	233	37	1,621	982	20 E	10 E	10 E	5 E	5 E	4
5	25 E	20 E	87	246	35	1,364	807	20 E	10 E	10 E	5 E	5 E	5
6	20 E	20 E	76	408	27	560	333	20 E	10 E	10 E	5 E	5 E	6
7	36	20 E	68	744	27	491	223	20 E	10 E	10 E	5 E	5 E	7
8	101	20 E	58	486	25 E	456	170	20 E	10 E	10 E	5 E	5 E	8
9	110	20 E	49	396	25 E	360	122	20 E	10 E	10 E	5 E	5 E	9
10	101	20 E	36	312	25 E	339	112	20 E	10 E	10 E	5 E	10 E	10
11	85	20 E	20 E	220	24 E	238	93	20 E	10 E	10 E	5 E	32	11
12	76	30	25 E	260	24 E	193	79	15 E	10 E	10 E	5 E	27	12
13	75	36	32	253	24 E	171	63	15 E	10 E	10 E	5 E	15 E	13
14	56	25 E	41	217	24 E	153	47	15 E	10 E	10 E	5 E	15 E	14
15	51	31	66	201	24 E	130	39	15 E	10 E	10 E	5 E	10 E	15
16	50	20 E	60	186	24 E	116	32	15 E	10 E	5 E	5 E	10 E	16
17	49	20 E	58	255	24 E	105	28	15 E	10 E	5 E	5 E	10 E	17
18	41	51	61	306	24 E	92	27	15 E	10 E	5 E	5 E	10 E	18
19	15 E	69	54	360	24 E	81	25 E	15 E	10 E	5 E	5 E	10 E	19
20	20 E	61	51	314	24 E	71	24 E	15 E	10 E	5 E	5 E	5 E	20
21	20 E	40	58	239	24 E	60	23 E	15 E	10 E	5 E	5 E	5 E	21
22	25 E	20 E	250	199	23 E	51	23 E	15 E	10 E	5 E	5 E	5 E	22
23	32	20 E	190	166	23 E	47	23 E	15 E	10 E	5 E	5 E	5 E	23
24	20 E	20 E	140	144	23 E	42	23 E	15 E	10 E	5 E	5 E	5 E	24
25	20 E	20 E	132	124	23 E	40	23 E	15 E	10 E	5 E	5 E	5 E	25
26	20 E	20 E	116	112	22 E	35	25 E	15 E	10 E	5 E	5 E	5 E	26
27	20 E	20 E	696	95	22 E	28	24 E	15 E	10 E	5 E	5 E	5 E	27
28	20 E	20 E	1,261	81	22 E	27	24 E	15 E	10 E	5 E	5 E	5 E	28
29	20 E	20 E	1,560	71		70	24 E	15 E	10 E	5 E	5 E	5 E	29
30	20 E	20 E	1,009	65		141	24 E	15 E	10 E	5 E	5 E	5 E	30
31	20 E		600	54		330		15 E		5 E	5 E		31
MEAN	41.4	26.1	233	251	27 E	298	183 E	17 E	10 E	7.4 E	5.0 E	7.8 E	MEAN
MAX.	110	69	1,560	744	48	1,621	1,002	20 E	10 E	10 E	5 E	32	MAX.
MIN.	15 E	20 E	20 E	54	22 E	21	23 E	15 E	10 E	5 E	5 E	5 E	MIN.
AC. FT.	2,545 E	1,553 E	14,319 E	15,447	1,500 E	18,339	10,885 E	1,031 E	595 E	456 E	307 E	464 E	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRES FEET
153.44 E	1,782		3	4							67,441 E

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 55 38	121 00 08	NE 20 1N 9E	3,590	15.40	4-3-1958	OCT 25-SEP 26 JUNE 1952-DATE	JUNE 1952-DATE	1925 1952	1926	0.00 89.97	LOCAL USCGS

Station located 340 feet below Farmington-Escalon Highway bridge. Flows entering Littlejohn Creek via Duck Creek Diversion are included. Flow regulated by Farmington Reservoir. Records furnished by U. S. Corps of Engineers.

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B02805	FRENCH CAMP SLOUGH NEAR FRENCH CAMP

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	113	4.4	5.7	562	39	21	534	47	65	69	43	82	1
2	108	4.0	30	406	36	294	910	62	76	57	49	67	2
3	99	5.1	47	272	32	1,350	1,320	67	93	16	48	58	3
4	98 *	5.4	32	197	28	1,710	1,220	69	77	38	44	68	4
5	92	5.9	27	211	28 *	1,610	1,200	67	88	34	35	76	5
6	93	9.8	23	400	26	826	478	70	85	8.4	22	80	6
7	154	9.7	21	885	24	591	285	100	84	26	13	81	7
8	251	9.2	18	682	23	673	167	99	92	64	38	80	8
9	201	7.0	16	451	20	455	143	68	88	101	44	76	9
10	106	5.7	15	348	18	455	134	57	82	146	31	84	10
11	63	5.1	13	182	17	299	113	66	69	114	39	96	11
12	40	6.5	12	212	16	190	102	62	56	93	29	124	12
13	33	10	14	258	19	160	86	73	55	79	24	127	13
14	28	12	23	185	18	135	60	34	63	68	23	143	14
15	23	11 *	25	152	17	120	52	33	70	80	30	172	15
16	20	9.9	23	142	18	97	46	61	65	79	22	144	16
17	18	11.	18	161	17	90	82	62	91 *	60	37	137	17
18	18	61	18	284	18	78	83	58	89	71	48	142	18
19	15	65	16	371	18	77 *	147	62	120	62	37	156	19
20	9.9	35	17	327	18	65	85	67	153	61	32	135	20
21	8.4	23	20	214	18	69	63	78	138	51	36	157	21
22	9.4	16	159	158	22	59	58	68	105	55	48	135	22
23	11	11	219	125	23	63	72	57	88	44	55	141	23
24	11	8.4	92	101	23	51	108	56	98	34	47	170	24
25	9.1	8.0	63	83	24	58	107	54	90	22	60	155	25
26	9.0	10	51	72	23	55	95	59	66	19	57	169	26
27	8.1	7.4	699	63	24	62	88	45	72	15	37	170	27
28	6.5	7.1	1,350	54	23	92	74	54	85	13	42	146	28
29	5.8	5.7	1,750	48		126	72	64	86	19	16	137	29
30	5.8	4.8	1,400	42		171	55	67	66	22	48	129	30
31	4.3		779	39		519		63		30	77		31
MEAN	53.9	13.1	225	248	22.5	342	268	62.9	85.2	53.2	39.1	121	MEAN
MAX.	251	65.0	1,750	885	39.0	1,710	1,320	100	153	146	77.0	172	MAX.
MIN.	4.3	4.0	5.7	39.0	16.0	21.0	46.0	33.0	55.0	8.4	13.0	58.0	MIN.
AC. FT.	3,315	782	13,876	15,247	1,250	21,066	15,945	3,866	5,068	3,274	2,402	7,214	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
128

MAXIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
1,890	9.61	12	29
		2000	

MINIMUM			
DISCHARGE	GAGE HT.	MO.	DAY
0		7	3
		1815	

TOTAL
ACRE FEET
93,305

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 52 52	121 14 53	NE 6 1S 7E	3,390	6.31	12-9-1950	JAN 50-MAY 50 OCT 50-DATE	JAN 50-MAY 50 OCT 50-DATE	1950	1955	0.00 4.00	LOCAL LOCAL

Station located at Airport Way bridge, 1.5 miles east of French Camp. During periods when backwater from a temporary diversion dam affects the stage-discharge relationship, a supplementary water stage recorder, located 0.5 mile downstream on the bypass, is used for computations. Tributary to San Joaquin River. Maximum discharge listed at site and datum then in use.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO.		STATION NAME	
1974		802835		DUCK CREEK NEAR STOCKTON	

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11	0.0	0.8	17	0.2	0.0	5.8	1.5	2.8	4.7	10	12	1
2	10	0.0	0.3	42	0.1	0.0	164	1.2	4.1	8.7	13	11	2
3	12	0.0	9.0	12	0.0	0.0	51	1.9	3.4	11	16	12	3
4	8.8*	0.0	12	6.9	0.0	0.0*	16	1.0	8.9	9.8	12	14	4
5	8.9	0.2	8.7	6.2	0.0	0.0	10	0.2	9.8	9.4	12	17	5
6	5.8	0.7	3.3	88	0.0	1.4	5.0	2.5	8.8	7.6	14	17	6
7	11	0.3	1.2	108	0.0	3.8	2.3	1.5	8.1	7.5	14	16	7
8	13	0.4	0.5	63	0.0	1.6	1.3	1.9	5.9	6.9	14	15	8
9	7.1	0.1	0.2	21	0.0	0.3	0.9	1.5	5.4	12	14	14	9
10	3.3	0.1	0.1	8.2	0.0	0.1	0.5	1.5	5.9	8.2	16	14	10
11	3.1	0.1	0.1	5.5	0.0	0.2	0.1	2.2	5.9	5.0	19	15	11
12	3.0	1.5	0.0	25	0.0	0.1	0.0	2.6	5.2	3.6	18	15	12
13	2.2	2.5	0.1	41	0.0	0.0	0.3	2.6	5.8	3.3	12	12	13
14	1.7	1.3	0.1	12	0.0	0.0	0.3	3.9	5.7	3.6	17	13	14
15	1.1	0.5*	0.1	6.3	0.0	0.0	0.7	5.7	6.1	2.3	18	12	15
16	0.9	0.7	4.7	5.4	0.0	0.0	1.2	3.1	5.5	2.8	20	14	16
17	1.2	0.8	5.2	13	0.0	0.0	1.0	4.7	4.1*	3.3	16	14	17
18	0.6	1.5	1.7	60	0.0	0.0	1.0	5.1	2.5	4.2	16	16	18
19	0.2	1.3	0.6	71	0.0	0.0*	0.1	5.5	6.3	4.2	13	17	19
20	0.0	0.5	0.3	23	0.0	0.0	0.6	6.5	6.0	4.2	14	16	20
21	0.0	0.1	2.2	9.6	0.0	0.0	0.2	8.3	2.6	5.5	15	13	21
22	0.0	0.0	56	6.1	0.0	0.0	0.1	8.2	3.9	9.0	11	12	22
23	0.2	0.1	48	4.1	0.0	0.0	0.5	6.4	5.1	6.2	15	10	23
24	0.0	0.5	14	1.8	0.0	0.0	1.4	3.5	5.0	9.2	17	10	24
25	0.0	0.4	7.8	1.1	0.0	0.0	0.2	5.5	3.8	10	15	11	25
26	0.0	0.3	5.3	0.6	0.0	0.0	0.1	5.2	2.1	8.3	9.5	11	26
27	0.0	0.2	256	0.4	0.0	0.0	0.0	4.7	1.6	8.7	11	9.9	27
28	0.0	0.1	337	0.3	0.0	0.1	0.1	6.9	3.7	13	14	9.3	28
29	0.0	0.0	87	0.4	0.3	0.1	0.1	5.1	6.4	12	13	10	29
30	0.0	0.0	57	0.3	0.7	0.3	0.3	5.8	6.9	10	13	10	30
31	0.0		20	0.2	0.2	0.2		3.5		9.9	11		31
MEAN	3.4	0.5	30.3	21.3	0.0	0.3	8.8	3.9	5.2	7.2	14.3	13.1	MEAN
MAX.	13.0	2.5	337	108	0.2	3.8	164	8.3	9.8	13.0	20.0	17.0	MAX.
MIN.	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	1.6	2.3	9.5	9.3	MIN.
AC. FT.	208	28	1863	1308	1	17	526	237	312	444	878	778	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- - E AND \*

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
9.1		563	5.87	12	27	1245	0.0	1.85	10	20	2330	6601	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.S.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 55 30	121 15 02	NE 35 1N 7E	782	6.51	1-16-1973	JAN 50-APR 50	JAN 50-APR 50	1950	1953	0.00	LOCAL
						OCT 50-APR 51	OCT 50-APR 51	1953	1957	0.00	LOCAL
						OCT 51-OCT 70	OCT 51-OCT 70	1957	1965	0.00	LOCAL
						OCT 71-DATE	OCT 71-DATE	1965		0.00	LOCAL
Station located 35 feet below B Street Bridge, immediately south of Stockton. Prior to November 10, 1965, station located at Laurel Avenue, 0.2 mile upatream from present location. Tributary to San Joaquin River via French Camp Slough. During high flow, water from Duck Creek enters Mormon Slough approximately 2 miles east of the head of Stockton Diverting Canal. Discharge listed does not include this overflow. Flow regulated by gravity culverts which divert to Littlejohn Creek. Maximum discharge listed at site and datum then in use.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	802520	CALAVERAS RIVER NEAR STOCKTON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.8	0.0	0.0	22	10	14	6.1	0.9	9.1	20	27	23	1
2	6.4	0.0	0.0	22 *	10	31	23	15	10	20	26	22	2
3	17	0.0	0.0*	20	10	56	17	15	9.5	18	17	16	3
4	22	0.0	0.0	20	10	49	8.9	6.3	9.2	11	25	20	4
5	24	0.0	0.0	20	9.7*	35	5.1	3.9	13	6.1	24	20	5
6	24	0.0	0.0	23	11	27	2.8	3.7	20	5.4	23	15	6
7	20	0.0	0.0	38	18	38	9.8	2.7	16	28	19	9.7	7
8	20	0.0*	0.0	49	15	38	7.6	1.7	19	33	21	8.6	8
9	13	0.0	0.0	66	16	38	8.0	1.3	26	39	22	7.7	9
10	7.0	0.0	0.0	47	15	37	2.5	25	30	39	21	7.9	10
11	6.3	0.0	0.0	21	15	37	5.0	27	33	30	25	17	11
12	4.3	0.0	0.0	28	15	30	7.7	16	24	18	31	35	12
13	1.2	0.0	0.0	28	16	26	5.4	30	29	18	21	22	13
14	0.0	0.3	22	20	21	36	4.9	32	28	17	11	21	14
15	0.0	0.0	16	19	19	34	6.3	27	27	17	6.7	26	15
16	0.0	0.0	14	19	17	30	8.9	31	23	12	11	22	16
17	0.0	0.0	14	22	16	23	8.4	20	19 *	4.5	18	15	17
18	0.0	0.0	12	35	17	18	8.1	26	12	1.0	34	7.5	18
19	0.0	0.0	9.5	44	17	17 *	7.8	31	37	4.2	32	3.1	19
20	0.0	0.0	9.0	26	24	16	2.3	29	32	19	20	1.3	20
21	0.0	0.0	9.0	20	27	14	5.8	24	25	38	16	2.0	21
22	0.0	0.0	19	16	22	4.9	6.3	23	19	33	15	11	22
23	0.0	0.0	15	14	21	3.7	5.5	17	28	17	9.8	8.7	23
24	0.0	0.0	11	13	20	0.8	5.2	17	24	12	13	16	24
25	0.0	0.0	9.3	13	18	1.3	8.4	14	20	4.4	40	17	25
26	0.0*	0.0	9.1	12	16	1.7	8.6	14	23	6.2	35	7.7	26
27	0.0	0.0	31	12	15	0.9	5.0	13	18	12	35	4.6	27
28	0.0	0.0	40	11	14	6.0	10	9.1	13	15	23	4.8	28
29	0.0	0.0	23	11		3.3	8.9	5.4	20	14	14	4.1	29
30	0.0	0.0	24	10		3.5	0.2	7.9	29	11	14	3.9	30
31	0.0*	0.0	21	10		3.7		3.6		16	16		31
MEAN	5.4	0.0	9.9	23.6	16.2	21.7	7.3	15.9	21.5	17.4	21.5	13.3	MEAN
MAX.	24.0	0.3	40.0	66.0	27.0	56.0	23.0	32.0	37.0	39.0	40.0	35.0	MAX.
MIN.	0.0	0.0	0.0	10.0	9.7	0.8	0.2	0.9	9.1	1.0	6.7	1.3	MIN.
AC. FT.	333	1	611	1450	902	1336	435	977	1279	1069	1320	793	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED

NR - NO RECORD

\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.

- - 5 AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
14.5	118	5.08	10	09	0930	0.0	3.08	10	14	1700	10505

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 01 14	121 13 45	SE 17 2N 7E	760 E	12.61	1-6-1965	DEC 1948-DATE	DEC 1948-DATE	1948	1949	0.00	LOCAL
								1949	1950	0.00	LOCAL
								1950	1952	0.00	LOCAL
								1952	1955	2.00	LOCAL
								1955	1959	0.00	LOCAL
								1959	1965	0.00	LOCAL
								1965		0.00	LOCAL

Station located below Solari Road bridge, 5 miles northeast of Stockton. Prior to October 28, 1965, station located 0.5 mile above U. S. Highway 99 bridge, 1.5 miles downstream from present location. Flows are regulated by diversion dam at Bellota operated by Stockton East San Joaquin Water Conservation District. Maximum discharge listed at site and datum then in use.

TABLE B-5 (Cont.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	802560	MORMON SLOUGH AT BELLOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		NR	407	1,770	23	0.0	158						1
2		NR	251	1,530	25	215	551						2
3		NR	99	1,450	28	186	152						3
4		NR	69	1,440	30	94	89						4
5		NR	56	1,500	28 *	55	66						5
6		NR	46	2,200	9.1	1,110	42						6
7	N	NR	42	1,870	0.0	1,300	22	N	N	N	N	N	7
8		NR	38	1,520	0.0	1,470	7.0						8
9	O	NR	35	1,290	0.0	1,380	12	O	O	O	O	O	9
10		NR	33	225	0.0	1,360	26						10
11		NR	27	113	0.0	1,240	17						11
12	R	NR	18	142	0.0	170	7.7	R	R	R	R	R	12
13		NR	26	113	0.0	1,050	0.3						13
14	E	NR	18	84	0.0	1,190	0.2	E	E	E	E	E	14
15		NR	14 *	46	75	0.0	829						15
16	C							C	C	C	C	C	16
17	O	11	13	73	0.0	421	1.3	O	O	O	O	O	17
18		8.9	2.8	154	0.0	86	4.6						18
19	R	27	1.1	228	0.0	38	4.6	R	R	R	R	R	19
20		26	4.0	232	0.0	23 *	NR						20
21	D	19	3.2	127	0.0	16	NR	D	D	D	D	D	21
22													22
23		13	60	91	0.0	15	NR						23
24		9.6	349	67	0.0	17	NR						24
25		8.5	131	55	0.0	13	NR						25
26		7.4	72	49	0.0	7.6	NR						26
27		6.8	54	41	0.0	7.6	NR						27
28		6.8	53	33	0.0	7.6	NR						28
29		6.8	946	29	0.0	7.6	NR						29
30		7.6	1,390	26	0.0	7.6	NR						30
31		10	1,730 *	25		18	NR						31
		12	1,590	22		33	NR						
			1,490	22		109	NR						
MEAN	NR	NR	295	535	5.1	402	NR	NR	NR	NR	NR	NR	MEAN
MAX.	NR	NR	1,730	2,200	30.0	1,470	NR	NR	NR	NR	NR	NR	MAX.
MIN.	NR	NR	1.1	22.0	0.0	0.0	NR	NR	NR	NR	NR	NR	MIN.
AC. FT.	NR	NR	18153	32918	284	24746	NR	NR	NR	NR	NR	NR	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- E AND \*

WATER YEAR SUMMARY

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
NR	NR					NR					NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 03 10	121 00 37	SW 5 2N 9E				DEC 1948-DATE	DEC 1948-DATE	1948	1952	0.00	LOCAL
								1952		0.00	LOCAL
Station located 0.2 mile above Farmington-Bellota Highway bridge, 0.2 mile east of Bellota. Flow regulated by Hogan Reservoir. During irrigation season, flow is reregulated by boards placed across diversion dam immediately downstream, which control diversion of water between the Calaveras River and Mormon Slough. This is flow from Calaveras River which is returned to the river via Stockton Diverting Canal. Flows are computed for the period when boards are not placed across the diversion dam.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	802580	STOCKTON DIVERTING CANAL AT STOCKTON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	122	1,660	6.1	1.0	132	NR	5.8	3.9	2.2	2.1	1
2	0.0	0.0	428	1,510	5.2	87	578	NR	5.6	5.4	8.4	2.0	2
3	0.0	0.0	187	1,410	4.3	271	347	NR	5.6	7.2	11	2.0	3
4	0.0	0.0	85	1,380	3.5	192	165	NR	5.9	6.4	2.9	2.0	4
5	0.0	0.7	45	1,390	2.6*	54	80	NR	5.7	5.7	2.8	1.6	5
6	0.0	1.2	27	1,920	2.0	822	44	NR	5.4	5.8	2.0	1.4	6
7	2.9	0.0	19	1,940	1.1	1,300	21	NR	5.8	6.1	3.6	1.5	7
8	0.0	1.9	15	1,530	0.4	1,410	13	NR	6.1	7.0	3.5	2.0	8
9	6.1	1.0	12	1,310	0.0	1,350	12	NR	6.1	12	4.0	7.1	9
10	55	0.2	10	463	0.0	1,320	17	NR	6.0	38	2.5	35	10
11	1*	0.0	8.8	150	0.0	1,310	19	NR	5.8	8.3	2.2	22	11
12	4.0	1.1	7.9	200	0.5	448	10	NR	5.6	5.1	2.5	7.7	12
13	1.5	5.1	6.5*	203	0.4	796	7.9	NR	5.7	4.8	2.6	42	13
14	0.4	6.1	46	117	0.0	1,270	5.4	NR	5.8	4.8	2.4	29	14
15	0.1	2.9*	71	84	0.0	963	3.4	NR	5.5	5.0	NR	6.6	15
16	0.0	2.5	18	92	0.0	583	0.7	NR	5.6	4.4	NR	28	16
17	0.0	2.6	6.0	185	0.0	253	NR	12	16	5.3	NR	39	17
18	18	4.4	4.1	344	0.0	82	NR	8.9	10	4.4*	NR	8.6	18
19	0.1	18	3.2	NR	1.7	19	NR	8.6	9.1	5.4	NR	2.3	19
20	0.0	14	2.3	NR	0.8	13	NR	7.0	15	3.1	NR	9.7	20
21	0.0	6.6	5.5	NR	0.9	9.0	NR	7.1	11	3.4	NR	5.8	21
22	0.5	4.0	457	NR	1.6	11	NR	7.2	6.4	3.4	2.6	3.2	22
23	0.4	2.4	315	NR	0.4	10	NR	7.2	5.1	1.9	2.6	8.1	23
24	0.0	1.3	106	NR	0.0	7.5	NR	6.9	5.1	1.8	2.6	4.6	24
25	0.0	0.7	42	NR	0.0	6.5	NR	6.7	7.2	1.7	2.5	2.1	25
26	0.0	0.4	23	NR	0.0	6.0	NR	14	8.0	1.8	2.2	39	26
27	0.0	0.0	1,100	NR	0.0	8.3	NR	6.2	6.1	1.8	2.2	9.4	27
28	0.0	0.0	1,710	NR	0.0	11	NR	5.9	8.4	1.6	2.2	2.2	28
29	0.0	0.0	1,720	NR		18	NR	11	4.5	1.8	2.1	1.8	29
30	0.0	0.0	1,640	NR		26	NR	13	4.4	1.9	2.5	1.9	30
31	0.0		1,460		7.2	134		6.0		2.0	2.2		31
MEAN	3.3	2.6	313	NR	1.1	412	NR	NR	6.9	5.5	NR	11.0	MEAN
MAX.	55.0	18.0	1,720	NR	6.1	1,410	NR	NR	16.0	38.0	NR	42.0	MAX.
MIN.	0.0	0.0	2.3	NR	0.0	1.0	NR	NR	4.4	1.6	NR	1.4	MIN.
AC. FT.	204	153	19244	NR	62	25371	NR	NR	413	340	NR	654	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - - E AND \*

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
NR	NR	NR	NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.S. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
37 59 12	121 15 30	SE 42 2N 6E	11,400 E	17.10 E	4-4-1958 E	JAN 1944-DATE	JAN 1944-DATE	1954		0.00 LOCAL

Station located 60 feet below Cherokee Lane Bridge crossing over Stockton Diverting Canal. Prior to June 12, 1969, station located 200 feet upstream from U. S. Highway 99E. This water, diverted from the Calaveras River at the head of Mormon Slough, returns to the river via Stockton Diverting Canal into the Sacramento-San Joaquin Delta. For periods of no record, inflows into the Delta are estimated from the station, "Mormon Slough at Bellota".



TABLE B-5 (Cont.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	802007	MOSHER SLOUGH NEAR STOCKTON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	12	5.4	2.0	0.2	0.0	0.2	18	7.1	8.9	16	12	33	1
2	11	6.8	0.0	0.0	0.0	0.0	20	11	6.9	10	10	30	2
3	11	1.7	0.0	0.1	0.0	0.0	17	12	5.9	6.8	0.0	22	3
4	14	0.0	0.0	0.0	0.0	0.0	15	8.5	3.7	9.0	16	22	4
5	14	0.6	0.0	0.0	0.0	0.0	15	17	2.1	10	13	18	5
6	16	1.2	0.0	2.2	0.0	0.0	14	21	1.6	14	11	15	6
7	20	0.0	0.0	8.0	0.0	0.2	11	18	7.5	21	6.4	16	7
8	25	0.0	0.0	9.1	0.0	0.0	5.2	16	6.7	13	6.5	22	8
9	20	0.0	0.0	3.0	0.0	0.0	9.4	10	13	25	5.3	40	9
10	18	0.0	0.0	0.2	0.0	0.0	8.6	12	14	25	5.0	23	10
11	16	0.2	0.2	0.9	0.0	0.1	4.2	12	13	24	5.3	26	11
12	17	1.5*	0.0	0.6	0.0	0.0	5.0	14	6.0	19	5.0	18	12
13	18	2.5	0.3	2.4	0.0	0.0	4.1	5.6	2.9	9.9	4.1	34	13
14	16	1.1	0.0	0.3	0.0	4.4*	3.7	5.0	3.3	16	2.8	31	14
15	15	0.0	0.0	0.2	0.0	16	4.2	3.4	10	9.3	2.1	29	15
16	8.9	0.9	0.0	0.1	0.0	12	6.9	1.6	10	6.5	2.0	26	16
17	9.6	2.0	0.1	0.0	0.0	9.8	9.0	1.8	18	9.2	1.9	24	17
18	6.8	0.7	0.0	0.5	0.0	10	4.7	0.4	14	12	2.9	24	18
19	3.5	0.1	0.0	1.4	0.0	11	5.9	0.0	22	9.2	4.1	20	19
20	0.4	0.0	0.0	1.5	0.0*	12	4.8	1.7	14	17	3.8	23	20
21	0.0	0.0	1.7	0.1	0.0	11	4.5	10	13	20	3.2	14	21
22	3.8	0.0	5.6	0.0	0.0	11	4.6	14	6.3	21	4.5	15	22
23	11	0.0	7.0	0.0	0.0	13	6.1	10	8.0	20	18	20	23
24	7.2	0.1	1.4	0.0	0.0	14	5.7	11	15	15	20	22	24
25	5.0	0.0	0.0	0.0	0.0	16	7.6	8.6	13	10	22	30	25
26	4.2*	0.0	2.3	0.0	0.0	13	7.6	7.3	17	8.5	19	23	26
27	3.4	0.0	18	0.0	0.1	12	2.2	7.2	21	14	14	39	27
28	1.9	0.0	21	0.0	0.0	14	5.5	4.2	22	17	12	38	28
29	2.5	0.0	12	0.0	0.0	12	5.9	3.4	14	18	11	31	29
30	2.3	0.1	5.1	0.0	0.0	13	5.9	7.5	11	18	9.8	30	30
31	0.2		1.8	0.1*		12		10		16	17		31
MEAN	10.4	0.8	2.6	1.0	0.0	7.0	8.0	8.8	10.8	14.8	9.0	25.3	MEAN
MAX.	28.0	6.8	21.0	9.1	0.1	16.0	20.0	21.0	22.0	25.0	22.0	40.0	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	1.6	6.5	1.9	14.0	MIN.
AC. FT.	638	49	157	61		430	479	538	642	911	555	1507	AC. FT.

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
± - E AND \*

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
8.2	59	2.79	09	14	1545	0.0	1.87	10	20	1830	5968

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.S. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 01 42	121 17 40	SE 10 2N 6E				OCT 73 - DATE	FEB 72 - DATE	1972		0.00	LOCAL
Station located 200 feet below West Lane Bridge, immediately northeast of Stockton. Tributary to San Joaquin River. Floodflows are diverted to Bear Creek six miles upstream from station.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	802010	BEAR CREEK NEAR LODI

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.7	0.1	44	90	12 *	8.9	154					NR	1
2	1.2	0.0	70	69	13	41	404					NR	2
3	1.9	0.0	28	39	12	79	NR					NR	3
4	2.0	0.0	19	33	11	42	NR					NR	4
5	0.9	0.5	13	67	10	24	NR					NR	5
6	0.6	7.4	11	223	8.7	17	NR					57	6
7	7.3	11	10 *	675	8.5	15	NR	N	N	N	N	32	7
8	32	7.7	8.6	203 *	7.8	29	NR					38	8
9	28	2.6	4.8	81	8.0	34	NR	O	O	O	O	53	9
10	25	0.7	2.3	51	7.1	21	NR					54	10
11	14	2.4	2.0	40	8.1	16	NR					45	11
12	11	20 *	2.4	177	8.4	16	NR	R	R	R	R	44	12
13	7.8	29	22	86	8.8	21	NR					46	13
14	11	13	82	51	9.4	17 *	NR	E	E	E	E	44	14
15	5.7	13	32	59	9.3	13	NR					55	15
16	2.6	11	20	53	8.8	11	NR	C	C	C	C	47	16
17	0.9	25	15	73	7.8	10	NR	O	O	O	O	38	17
18	0.5	45	12	135	8.1	9.1	NR					43	18
19	0.3	22	11	226	9.3	7.8	NR	R	R	R	R	50	19
20	0.3	11	9.4	95	12	0.9	NR	D	D	D	D	45	20
21	0.2	7.8	13	57	14	0.6	NR					44	21
22	0.3	4.9	435	37	11	0.2	NR					51	22
23	0.7	1.5	119	29	12	0.2	NR					58	23
24	1.5	0.7	64	24	9.9	0.2	NR					34	24
25	1.1	0.4	43	21	8.5	0.2	NR					28	25
26	1.8 *	0.4	35	19	7.7	7.9	NR					29	26
27	1.2	0.2	764	17	7.3	7.7	NR					18	27
28	0.7	0.2	908	15	7.1	29	NR					14	28
29	3.9	0.2	243	13		54	NR					20	29
30	7.0	0.2	108	12		73	NR					23	30
31	0.5		56	12		103	NR						31
MEAN	5.6	7.9	103	89.7	9.5	22.9	NR	NR	NR	NR	NR	NR	MEAN
MAX.	32.0	45.0	908	675	14.0	103	NR	NR	NR	NR	NR	NR	MAX.
MIN.	0.2	0.0	2.0	12.0	7.1	0.2	NR	NR	NR	NR	NR	NR	MIN.
AC. FT.	342	472	6360	5518	527	1406	NR	NR	NR	NR	NR	NR	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
NR	NR					NR					NR

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 04 27	121 12 40	SE 28 3N 7E	4,550	8.33	1-22-1967	DEC 1965-DATE	FEB 1965-DATE	1965		44.45	USCGS
Station located 50 feet above Alpine Road bridge, 5.0 miles southeast of Lodi. Tributary to San Joaquin River via Disappointment Slough. Drainage area is 36.7 square miles. A removable board dam, 1/2 mile below gaging station, impounds flows during the irrigation season and discharges are not computed for this period. Monthly flows below the dam during its operation are estimated at less than 500 acre-feet.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B02105	MOKELENE RIVER AT WOODBRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	332	616	514	1,970	1,000	430	699	729	2,040	334	396	479	1
2	336	577	479	2,250	977	814	1,530	731	2,150	334	385	485	2
3	332	559	455	2,280	967	1,810	2,060	739	2,190	320	385	473	3
4	335	553	794	2,280	959	2,160	2,200	578	2,210	339	390	475	4
5	347	557	902	2,310	767	2,220	2,260	541	1,910	360	386	481	5
6	334	572	913	2,310	541	2,250	1,970	487	1,450	336	381	482	6
7	396	514	902	2,400	490	2,310	1,850	458	971	337	379	508	7
8	419	497	908	1,660	488	2,320	1,790	454	911	354	384	511	8
9	392	494	904	1,380	473	1,930	1,860	739	883	509	390	561	9
10	386	501	902	1,200	458	1,900	1,870	781	865	482	398	526	10
11	386	506	902	1,160	455	1,650	1,850	777	821	459	397	527	11
12	386	741	791	1,150	451	1,600	1,490	769	807	460	397	532	12
13	393	1,820	775	1,140	446	1,270	1,300	774	803	398	389	590	13
14	394	2,560	784	1,130	275	1,170	1,190	774	951	412	388	608	14
15	395	2,870	770	1,120	206	1,150	1,170	755	979	380	394	614	15
16	397	3,040	766	1,120	191	1,160	1,140	735	997	363	407	628	16
17	392	3,160	764	1,120	175	1,160	1,150	741	980	344	455	599	17
18	387	3,240	762	1,150	175	1,160	1,150	740	602	329	438	604	18
19	288	3,260	755	1,960	175	1,140	1,140	755	563	335	438	605	19
20	248	3,270	754	2,250	175	738	1,090	759	559	333	418	644	20
21	244	2,620	773	2,300	177	680	1,090	740	552	336	421	554	21
22	254	1,960	796	2,290	180	333	1,060	560	426	335	440	546	22
23	268	1,860	776	2,260	175	305	916	536	416	316	448	551	23
24	264	1,330	763	1,970	172	302	918	523	426	300	437	540	24
25	262	996	760	1,840	169	304	897	515	383	296	447	544	25
26	261	924	766	1,840	165	300	882	517	329	296	455	554	26
27	369	626	840	1,830	164	310	876	561	327	307	445	562	27
28	417	508	962	1,820	300	318	873	949	350	300	443	576	28
29	547	478	1,300	1,830	310	832	1,560	340	300	445	579	29	29
30	804	478	1,380	1,220	539	814	1,780	365	299	467	568	30	30
31	726	1,390	1,390	1,030	552		1,850		340	465			31
MEAN	377	1,390	839	1,728	405	1,116	1,331	771	919	353	416	550	MEAN
MAX.	804	3,270	1,390	2,400	1,000	2,320	2,260	1,850	2,210	509	467	644	MAX.
MIN.	244	478	455	1,030	164	300	699	454	327	296	379	473	MIN.
AC. FT.	23,190	82,690	51,570	106,300	22,500	68,620	79,180	47,420	54,660	21,710	25,600	32,740	AC. FT.

**WATER YEAR SUMMARY**

† - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN
DISCHARGE
851

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
3270	19.21	11	20	1730

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
5.02	2	28		0200

TOTAL
ACRE FEET
616,100

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 09 31	121 18 09	NE 34 4N 6E	27,000	29.58	11-22-1950	MAY 24-OCT 25# JAN 26-DATE	MAY 1924-DATE	1924	1931	18.9	USCGS
								1931		14.9	USCGS

Station located 0.3 mile below county highway bridge, 0.4 mile below dam and canal intake of Woodbridge Irrigation District. Flow regulated by reservoirs and power plants. Records furnished by U. S. Geological Survey. Drainage area is 661 square miles.

# - Irrigation season only.

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR STATION NO. STATION NAME													
1974 821160 SUTTER CREEK NEAR SUTTER CREEK													
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	2.9	252	89	40	219	501	46	16	6.1	3.2	1.2	1
2	0.0	2.9	81	71	34	562	408	43	16	6.0*	3.0	1.1	2
3	0.0	2.9	48	62	32	312	233	40	15	5.7	2.9	1.0	3
4	0.0	3.0	35	56	30	212	172	39	14	5.5	2.8	0.9	4
5	0.0	3.9	28	61	29	161	142	38	14	4.9	2.7	1.0	5
6	0.1	14	23	102	27	138	122	37	13	4.9	2.5	0.9	6
7	2.7	13	19	97	26	149	108	35	13	4.9	2.4	0.9	7
8	5.0	13	17	86	25	174	99	33	12	7.2	2.3	1.0	8
9	3.5	7.5	15	75	24	131	109	31	12	68	2.2	0.8	9
10	2.4	17	14	66	23	112	94	30	12	37	2.2	0.7	10
11	2.1	40	16	63	23	101	84	29	11	17	2.1	0.7	11
12	2.0	143	17	90	24	110	78	28	11	12	2.1	0.6	12
13	1.9	37	27	91	27	94	72	27	11	9.9	2.0	0.7	13
14	1.8	62	26	101	25	84	68	27	10	8.3	2.1	0.8	14
15	1.8	25	20	131	23	78	65	26	10	7.5	1.9	0.8	15
16	1.8	38	18	116	28	73	62	26	10	6.3	1.9	0.8	16
17	1.8	58	26	199	27	68	59	26	11	6.2	1.9	0.7	17
18	1.7	105	26	161	24	65	62	25	10	5.9	1.8	0.6	18
19	1.6	46	21	139	72	62	60	25	14	5.9	1.7	0.5	19
20	1.5	29	18	116	57	57	54	24	12	5.4	1.7	0.5	20
21	1.6	25	44	98	44	52	50	24	11	5.1	2.2	0.6	21
22	2.5	20	125	83	62	50	47	23	9.5	5.0	1.5	0.7	22
23	12	16	68	74	48	48	52	22	8.7	4.8	1.4	0.6	23
24	6.9	16	49	67	41	45	78	21	8.2	4.3	1.3	0.6	24
25	4.4	15	37	62	37	45	87	20	7.9	4.0	1.2	0.6	25
26	3.7	18	36	56	36	47	82	19	7.0	4.1	1.2	0.7	26
27	3.4	15	170	48	39	68	69	18	7.2	3.9	1.1	0.7	27
28	3.2	13	178	45	34	141	61	18	6.7	3.7	1.1	0.8	28
29	3.0	12	231	42		112	54	17	6.0	3.6	1.2	0.8	29
30	3.0	12	146	39		273	49	17	6.0	3.4	1.3	0.9	30
31	2.9		98	36		229		17		3.4	1.3		31
MEAN	2.5	27.5	62.2	84.6	34.3	131	109	27.5	10.8	9.0	1.9	0.8	MEAN
MAX.	12.0	143	252	199	72.0	562	501	46.0	16.0	68.0	3.2	1.2	MAX.
MIN.	0.0	2.9	14.0	36.0	23.0	45.0	47.0	17.0	6.0	3.4	1.1	0.5	MIN.
AC. FT.	155	1637	3826	5201	1906	8077	6508	1688	645	555	119	46	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 = - 5 AND \*

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
41.9		934	3.48	03	02	0230	0.0	0.50	10	01	0000	30363	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM		
			CFS	GAGE HT.	DATE			FROM	TO				
38 23 45	120 46 49	SE 5 6N 11E	5,770 E	6.27	1-31-1963	JAN 36-DEC 41 MAR 1960-DATE	JAN 36-DEC 41 MAR 1960-DATE	1936	1938	-4.00 0.00	LOCAL LOCAL		

Station located 0.4 mile below Volcano Road Bridge, 1.3 miles east of Sutter Creek. Tributary to Cosumnes River via Dry Creek. Drainage area is 48.1 square miles.

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B01520	DRY CREEK NEAR GALT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	1,130	987	206	196	869	119	38	4.3	0	3.0	1
2		0	786	648	201	1,650	2,200	111	36	6.9	0	2.0	2
3		0	346	479	173	1,990	986	110	30	6.0	0	0.3	3
4		0	214	427	157	1,080	650	105	20	7.6	0	0.4	4
5		0	155	563	141	704	514	101	15	7.6	0	4.1	5
6		0	118	1,200	127	557	427	98	13	6.7	0	2.6	6
7		0	99	2,970	118	473	368	79	16	4.3	0	1.2	7
8		0	83	1,220	115	812	325	74	11	2.5	0	0.2	8
9		0	68	740	109	617	336	70	7.6	21	0	0	9
10		0	61	564	104	495	401	64	18	79	0	0	10
11	N	4.1	60	464	99	431	307	59	19	49	0	0	11
12		261	104	594	97	480	259	58	21	28	0	0	12
13	O	205	202	549	136	442	229	56	13	24	0	0	13
14		183	397	452	123	361	209	55	15	17	0	0	14
15		176	206	629	102	310	192	50	5.4	14	0	0	15
16	F												
17	L	194	136	528	97	283	180	48	6.8	11	0	0	16
18	O	291	110	769	116	258	166	38	12	11	0	0	17
19		407	159	906	102	236	155	41	20	11	0	0	18
20	W	283	136	990	114	213	190	38	21	7.6	0	0	19
		120	113	804	235	193	163	35	23	7.1	0	0	20
21		78	137	625	162	175	143	34	19	5.9	0	0	21
22		60	878	490	191	162	133	26	18	5.2	0	0	22
23		46	568	417	197	153	131	26	13	2.6	0	0	23
24		39	374	370	163	146	211	22	4.5	0	0	0	24
25		34	270	331	144	138	277	25	1.2	0	0	0	25
26		31	230	299	133	152	232	39	0	0	0	0	26
27		31	1,530	267	132	164	191	26	0.1	0	0.3	0	27
28		29	2,670	240	131	329	167	28	0.5	0	4.3	0	28
29		30	1,420	220		345	142	23	0	0	4.4	0	29
30		30	1,180	207		485	126	24	0	0	4.0	0	30
31			676	198		687		38		0	2.6		31
MEAN		84.4	471	650	140	475	363	55.5	13.9	10.9	0.5	0.5	MEAN
MAX.		407	2,670	2,970	235	1,990	2,200	119	38	79	4.4	4.1	MAX.
MIN.		0	60	198	97	138	126	22	0	0	0	0	MIN.
AC. FT.		5,020	28,990	39,960	7,790	29,190	21,580	3,410	827	673	31	27	AC. FT.

**WATER YEAR SUMMARY**

! - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
190	4,400	13.96	1	7	0500	0					137,500

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 14 53	121 13 53	NE 32 5N 7E	24,000	15.28	4-3-1958	OCT 26-SEPT 33 OCT 44-DATE	OCT 26-SEPT 33 OCT 44-DATE	1944	1945	55.83 52.83	USCGS USCGS
Station located below county road bridge, 4 miles east of Galt. Tributary to Mokelumne River. Records furnished by U. S. Geological Survey. Drainage area is 329 square miles.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	801580	DEER CREEK NEAR SLOUGHHOUSE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	941	246	35	861	517	12	1.2	0.0*	0.0	0.0	1
2	0.0	0.0	128	96	32	758	314	11	1.2	0.0*	0.0	0.0	2
3	0.0	0.0	50	64	29	223	150	10	1.2	0.0	0.0	0.0*	3
4	0.0	0.0	39	117	29	111	81	9.7	1.2	0.0	0.0	0.0	4
5	0.0	0.0	33	136	27	62	58	9.3	0.9	0.0	0.0	0.0	5
6	0.0	8.9	29	459	24	50	50	8.9	0.7	0.0	0.0	0.0	6
7	0.0	15 *	26	401	22	78	43	8.5	0.5	0.0	0.0	0.0	7
8	0.0	15	23	175	22	163	41	8.2	0.5	0.0	0.0	0.0	8
9	0.0	5.0	20	102	21	57	47	7.2	0.4	15	0.0	0.0	9
10	0.0	4.8	18	66	21	46	45	6.2	0.3	27	0.0	0.0	10
11	0.0	50	23	54	19	45	39	5.3	0.2	7.5	0.0	0.0	11
12	0.0	621	33	87	19	207	40	4.8	0.2	3.6	0.0	0.0	12
13	0.0	450	289	50	26	83	33	4.6	0.2	2.2	0.0	0.0	13
14	0.0	339	104	61	20	54	30	4.4	0.2	1.5	0.0	0.0	14
15	0.0	230	48	127	18	46	29	4.3	0.3	1.0	0.0	0.0	15
16	0.0	193	40	100	19	42	26	4.1	0.5	0.7	0.0	0.0	16
17	0.0	508	41	784	22	39	24	3.8	0.6	0.3*	0.0	0.0	17
18	0.0	231	42	305	17	38	23	3.8	0.7*	0.2	0.0	0.0	18
19	0.0	48	35	238	50	35	27	3.8	1.3	0.1	0.0	0.0	19
20	0.0	34	33	173	36	32	23	3.8	4.3	0.1	0.0	0.0	20
21	0.0	33	127	107	29	30	19	3.6	3.6	0.0	0.0	0.0	21
22	0.0	22	239	63	69	29	18	3.4	1.8	0.0	0.0	0.0	22
23	0.0	17	78	53	38	28	18	3.2	1.1	0.0	0.0	0.0	23
24	0.0	19	57	47	32	27	46	2.7	0.6	0.0	0.0	0.0	24
25	0.0	25	47	42	29	25	37	2.2	0.4	0.0	0.0	0.0	25
26	0.0	17	103	40	28	29	26	1.8	0.2	0.0	0.0	0.0	26
27	0.0	14	536	37	30	39	20	1.6	0.1	0.0	0.0	0.0	27
28	0.0	11	489	35	28	64	17	1.2	0.0	0.0	0.0	0.0	28
29	0.0	10	354	34		85	14	1.1	0.0	0.0	0.0	0.0	29
30	0.0	34	179	32		355	13	1.1	0.0	0.0	0.0	0.0	30
31	0.0		116	32		134		1.2		0.0	0.0	0.0	31
MEAN	0.0	98.5	138	140	28.3	125	62.3	5.1	0.8	1.9	0.0	0.0	MEAN
MAX.	0.0	621	941	784	69.0	861	517	12.0	4.3	27.0	0.0	0.0	MAX.
MIN.	0.0	0.0	18.0	32.0	17.0	25.0	13.0	1.1	0.0	0.0	0.0	0.0	MIN.
AC. FT.		5861	8529	8654	1569	7686	3705	311	48	117			AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL	
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
50.4	2820	10.52	03	01	1845	0.0	5.70	10	01	0000	36480	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 33 06	121 06 30	NW 16 8N 8E	6,560 E	12.86	10-13-1962	NOV 1959-DATE	NOV 1959-DATE	1959		0.00	LOCAL

Station located 0.2 mile above Scott Road Bridge, 5.9 miles northeast of Sloughhouse. Tributary to Cosumnes River. Drainage area is 46.0 square miles.

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	801125	COSUMNES RIVER AT MCCONNELL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	36	2,290	2,440	839	781	3,670	972	409	65	7.0	2.2	1
2	0.0	34	3,310	1,950	822	6,290	6,850	1,040	401	48	5.8	1.8	2
3	0.0	33	1,270	1,420	723	7,120	4,930	1,090	398	64	5.0	1.2	3
4	0.0	34	828	1,260	691	3,660	3,270	1,080	365	77	4.1	1.2	4
5	0.0	37	647	1,550	661	2,580	2,640	1,070	347	77	3.6	2.0	5
6	0.0	56	539	2,050	627	2,130	2,260	1,070	321	51	3.0	1.2	6
7	0.0	77	471	3,820	590	1,910	1,970	1,070	301	58	2.6	0.0	7
8	0.0	127	420	2,680	567	2,760	1,760	1,090	281	80	2.2	0.0	8
9	0.0	164	383	1,530	543	2,250	1,720	1,100	258	136	1.8	0.0	9
10	129	111	353	1,220	522	1,830	1,750	990	237	602	1.4	0.0	10
11	60	160	340	1,050	505	1,660	1,540	902	220	408	0.9	0.0	11
12	44	1,200	403	1,140	488	2,010	1,420	895	202	235	0.5	0.0	12
13	35	1,670	555	1,310	534	2,420	1,340	858	188	177	0.0	0.0	13
14	43	1,190	1,410	1,140	520	1,880	1,270	798	172	143	0.0	0.0	14
15	21	987	813	2,180	485	1,740	1,240	747	153	121	0.0	0.0	15
16	14	553	573	2,030	465	1,680	1,210	719	145	93	0.0	0.0	16
17	6.5	869	496	4,230	534	1,630	1,190	672	143	75	0.0	0.0	17
18	0.4	1,930	631	5,720	486	1,580	1,180	627	136	59	0.0	0.0	18
19	0.0	1,630	602	4,630	508	1,490	1,200	583	143	51	0.0	0.0	19
20	0.0	827	517	4,360	890	1,390	1,090	539	135	42	0.0	0.0	20
21	0.0	652	501	3,270	689	1,290	1,030	501	138	44	0.0	0.0	21
22	0.0	557	1,660	2,540	750	1,230	999	473	123	46	0.0	0.0	22
23	6.0	447	1,500	2,060	762	1,180	1,010	456	116	33	0.0	0.0	23
24	100	378	973	1,770	658	1,140	1,240	458	104	37	0.0	0.0	24
25	124	362	775	1,530	604	1,120	1,380	469	87	24	0.0	0.0	25
26	79	334	670	1,350	571	1,160	1,150	479	81	18	0.0	0.0	26
27	59	320	2,560	1,190	603	1,210	1,080	506	56	16	0.0	0.0	27
28	50	271	5,250	1,080	624	1,770	988	524	68	13	2.0	0.0	28
29	45	245	4,060	992		1,920	944	517	53	12	2.9	0.0	29
30	42	234	5,220	916		2,780	940	484	53	9.6	2.7	0.0	30
31	39		2,720	854		4,180		434		8.0	2.5		31
MEAN	28.9	518	1,379	2,105	616	2,186	1,809	749	194	94.3	1.6	0.3	MEAN
MAX.	129	1,930	5,250	5,720	890	7,120	6,850	1,100	409	602	7.0	2.2	MAX.
MIN.	0.0	33	340	854	465	781	940	434	53	8.0	0.0	0.0	MIN.
AC. FT.	1,780	30,790	84,770	129,400	34,240	134,400	107,600	46,040	11,570	5,800	95	19	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
810	9,650	43.52	3	3	0030						586,600

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 21 29	121 20 34	SW 20 6N 6E	54,000	46.26	12-23-1955	OCT 1941-DATE	JAN 31-MAY 40# OCT 41-DATE	1931		0.00	USED
Station located on U. S. Highway 99 Bridge, 0.2 mile south of McConnell, 7.0 miles north of Galt. Maximum discharge of record listed is for period 1943 to date. Records furnished by U. S. Geological Survey. Drainage area is 724 square miles. # - Flood season only.											

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A00020	MORRISON CREEK NEAR SACRAMENTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.1	6.3	283	28	13	123	94	4.8	3.7	4.4	11	1.0	1
2	4.4	5.9	83	24	8.3	129	99	4.3	4.3	5.1	11	.79	2
3	7.0	3.9	33	21	6.8	49	40	4.1	6.0	4.7	9.0	3.1	3
4	5.2	2.5	19	120	8.2	26	20	3.8	6.2	3.7	8.5	3.2	4
5	3.9	59	13	107	6.8	18	16	2.9	6.6	4.5	10	4.0	5
6	7.0	41	11	182	6.8	14	14	4.3	6.3	3.9	11	4.9	6
7	70	23	9.1	234	6.7	50	14	4.8	6.3	3.9	10	2.7	7
8	7.2	9.0	5.6	101	6.6	36	16	5.7	4.6	118	12	1.6	8
9	8.7	13	5.0	54	4.3	18	27	5.5	4.2	50	10	2.4	9
10	6.1	56	6.8	37	4.0	11	18	5.0	5.9	29	3.6	2.5	10
11	4.9	105	16	57	5.8	25	13	4.2	5.6	17	3.7	3.3	11
12	4.6	172	9.5	62	15	27	12	3.1	5.3	17	4.1	1.8	12
13	3.0	112	36	41	7.4	33	11	4.4	5.0	12	2.5	2.0	13
14	2.5	71	16	99	7.6	16	11	5.4	5.0	13	2.3	4.3	14
15	4.5	23	8.9	147	7.0	11	11	5.6	3.8	16	3.4	4.0	15
16	5.1	59	6.7	109	9.0	7.3	10	5.4	3.2	18	2.9	6.6	16
17	5.1	162	7.7	197	4.5	6.0	10	5.5	5.1	18	1.2	4.9	17
18	5.3	94	7.4	150	4.7	6.9	12	4.6	6.1	20	.96	8.1	18
19	5.2	33	6.6	114	27	6.9	10	4.2	65	19	1.3	7.2	19
20	4.0	20	6.5	56	15	7.9	10	5.7	12	14	2.8	6.5	20
21	2.5	12	84	38	15	7.2	10	5.9	7.4	11	3.4	5.0	21
22	89	7.5	74	28	13	6.1	10	5.7	3.8	17	2.8	4.0	22
23	69	6.3	33	23	8.3	3.7	15	5.9	2.2	18	2.2	6.0	23
24	20	5.3	17	20	6.1	3.1	13	5.9	4.3	18	1.6	6.8	24
25	8.5	5.4	12	16	8.1	17	11	3.8	4.1	17	1.0	6.1	25
26	7.5	7.4	58	11	8.1	20	9.7	3.6	3.8	15	1.9	6.5	26
27	4.6	6.9	226	9.5	7.2	36	8.7	3.1	4.2	10	3.7	6.4	27
28	3.5	6.7	228	11	32	15	7.0	5.0	4.8	9.4	3.1	4.4	28
29	5.6	14	107	12	26	26	6.0	5.5	4.0	12	2.9	3.3	29
30	6.5	60	67	11	92	5.1	5.6	3.2	14	14	3.0	6.3	30
31	6.6		38	22	33		5.8			12	2.2		31
MEAN	12.7	40.1	49.5	69.1	9.73	28.4	18.8	4.81	7.07	17.6	4.81	4.32	MEAN
MAX.	89	172	283	234	32	129	99	5.9	65	118	12	8.1	MAX.
MIN.	2.5	2.5	5.0	9.5	4.0	3.1	5.1	2.9	2.2	3.7	.96	.79	MIN.
AC. FT.	780	2,380	3,040	4,250	540	1,750	1,120	296	421	1,080	296	257	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN DISCHARGE
22.4

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
682	5.02	11	17	1530

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME

TOTAL ACRE FEET
16,210

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 29 55	121 27 06	SE 32 8N 5E	1,610	8.53	1-26-1969	JULY 1959-DATE	JULY 1959-DATE	1959	1960	8.15	USCGS
								1960	1965	10.31	USCGS
								1965		7.60	USCGS

Station located 750 feet above Florin Road in southeast Sacramento. Tributary to Snodgrass Slough via Beach and Stone Lakes. Records furnished by U. S. Geological Survey. Drainage area is 48.6 square miles.



**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B95925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3,744	3,302	2,333	854	2,473	4,174	2,777	3,286	4,507	4,502	4,528	3,930	1
2	3,737	3,296	2,315	854	2,488	4,245	2,796	3,519	4,409	4,509	4,524	3,945	2
3	3,725	3,289	2,329	857	2,488	4,635	2,667	3,948	4,529	4,459	4,542	3,661	3
4	3,722	3,283	2,318	856	2,474	4,241	2,339	4,189	4,505	4,554	4,537	3,229	4
5	3,731	3,286	2,332	861	2,480	4,615	2,344	4,193	4,512	4,537	4,522	3,024	5
6	3,738	3,297	2,377	862 B	2,679	4,595	2,024	4,117	4,534	4,453	4,532	2,992	6
7	3,751	3,202	2,411	861	2,824	4,610	1,934	4,230	4,540	4,457	4,517	2,868	7
8	3,726	3,195	2,338	863	3,221	4,324	1,939	4,567	4,394	4,478	4,523	2,869	8
9	3,736	3,202	2,338	862	3,237	4,224	1,981	4,566	4,200	4,494	4,283	2,868	9
10	3,730	3,160	1,102	861	3,248	4,291	1,965	4,368	3,736	4,472	4,604	2,867	10
11	3,730	2,992	1,073	857	3,250	4,241	1,980	4,541	3,716	4,471	4,594	2,857	11
12	3,796	2,995	1,113	857	3,258	4,042	2,102	4,541	3,868	4,485	4,606	2,852	12
13	3,661	2,990	855	856	3,272	4,162	2,369	4,539	3,956	4,472	4,612	2,875	13
14	3,739	2,996	856	855	3,328	4,039	2,371	4,540	4,197	4,477	4,564	2,874	14
15	3,300	2,874	853	1,336	3,520	4,033	2,384	4,522	4,534	4,504	4,636	2,773	15
16	3,044	2,985	852	1,684	3,676	4,145	2,496	4,532	4,492	4,517	4,450	2,768	16
17	3,034	2,982	853	1,677	3,679	4,313	2,434	4,543	4,517	4,527	4,563	3,262	17
18	3,007	2,995	1,366	1,683	3,717	4,612	2,340	4,527	4,437	4,245	4,537	3,274	18
19	2,939	2,980	1,688	1,683	3,987	4,603	2,481	4,502	4,450	4,547	4,542	3,334	19
20	2,921	2,364	1,664	1,687	3,985	4,599	2,541	4,532	4,569	4,529	4,548	3,286	20
21	2,943	2,535	1,672	1,167	4,218	4,582	2,541	4,522	4,596	4,518	4,542	3,299	21
22	3,036	3,032	1,676	858	4,227	4,572	2,597	4,526	4,527	4,525	4,536	3,291	22
23	3,168	2,987	1,674	858	4,361	4,591	2,608	4,524	4,537	4,512	4,558	3,284	23
24	3,073	2,976	1,673	1,375	4,357	4,576	2,789	4,512	4,522	4,504	4,546	3,259	24
25	2,975	2,960	1,671	1,687	4,217	4,572	3,248	4,487	4,512	4,489	4,574	3,300	25
26	2,993	2,949	1,671	1,684	4,159	4,368	3,379	4,479	4,502	4,523	4,547	3,940	26
27	3,086	2,983	1,258	1,676	4,223	4,352	3,369	4,482	4,487	4,499	4,587	3,918	27
28	2,980 A	2,058	852	1,683	4,203	3,853	3,370	4,480	4,487	4,537	4,561	3,977	28
29	2,915	2,320	854	1,678		3,448	3,366	4,484	4,497	4,542	4,560	4,558	29
30	2,978	2,327	852	1,676		2,869	3,368	4,490	4,502	4,552	4,398	4,372	30
31	2,916		853	2,155		2,844		4,476		4,527	3,940		31
MEAN	3,341	2,992	1,551	1,234	3,473	4,238	2,563	4,379	4,395	4,497	4,520	3,320	MEAN
MAX.	3,796	3,302	2,411	2,135	4,361	4,635	3,379	4,567	4,596	4,554	4,636	4,558	MAX.
MIN.	2,915	2,320	852	854	2,473	2,844	1,934	3,286	3,716	4,245	3,940	2,768	MIN.
AC. FT.	205,685	178,063	95,351	75,823	192,893	260,572	152,529	269,288	261,528	276,534	277,914	197,569	AC. FT.

A - 25 hour day  
 B - 23 hour day

**WATER YEAR SUMMARY**

! - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN DISCHARGE	MAXIMUM	MINIMUM	TOTAL
3,375	DISCHARGE GAGE HT. MO. DAY TIME	DISCHARGE GAGE HT. MO. DAY TIME	ACRE FEET 2,443,749

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 47 45	121 35 05	SW 31 1S 4E				JUNE 1951-DATE	JUNE 1951-DATE	1951		0.00	USCGS

Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant, where it is lifted about 200 feet into the canal. Records are furnished by the U. S. Bureau of Reclamation.

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B95910	CONTRA COSTA CANAL NEAR OAKLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	115	126	52	54	57	60	79	83	178	199	219	162	1
2	154	131	52	55	62	59	90	79	177	185	211	158	2
3	158	111	57	56	54	57	88	79	155	195	212	163	3
4	159	112	58	56	58	59	89	79	156	191	207	153	4
5	159	115	57	53	58	64	90	78	156	185	207	150	5
6	125	108	57	55 B	62	70	83	80	153	181	206	147	6
7	114	107	59	57	39	67	81	82	146	183	213	126	7
8	95	102	56	57	38	72	71	94	135	173	214	113	8
9	84	98	53	57	60	72	60	109	169	170	207	111	9
10	74	93	54	56	58	68	60	112	189	168	202	112	10
11	76	91	58	55	59	63	67	118	205	200	198	116	11
12	66	94	61	55	57	66	67	117	200	193	193	127	12
13	36	91	60	55	58	68	68	119	206	195	191	126	13
14	83	94	58	58	63	66	60	126	205	199	185	123	14
15	83	108	58	56	60	69	84	129	206	193	183	121	15
16	93	102	62	56	55	64	93	124	205	201	185	122	16
17	107	76	56	58	58	63	91	121	197	197	187	112	17
18	108	60	58	58	61	69	95	118	200	203	191	107	18
19	108	63	50	58	64	74	73	117	197	202	190	98	19
20	108	64	59	59	42	72	48	125	195	199	192	96	20
21	110	58	58	60	62	74	82	126	151	207	194	95	21
22	107	60	53	62	61	72	93	125	203	207	196	94	22
23	104	57	53	62	60	65	90	127	200	217	188	94	23
24	108	55	54	65	65	65	83	130	205	203	187	93	24
25	100	56	52	64	63	60	76	127	200	199	184	91	25
26	99	59	54	63	40	65	76	129	206	212	182	91	26
27	98	62	53	62	63	62	76	132	207	205	178	91	27
28	92 A	59	53	61	80	67	70	127	207	216	175	74	28
29	105	58	54	50	59	59	75	126	215	219	172	86	29
30	115	57	53	61	62	81	131	131	214	220	163	106	30
31	113		55	56	60	60	180	180		223	155		31
MEAN	105	84.2	55.7	57.7	57.8	65.6	80.0	114	188	198	192	115	MEAN
MAX.	159	131	62	65	80	74	95	180	215	223	219	163	MAX.
MIN.	36	55	52	50	38	57	48	79	135	168	155	74	MIN.
AC. FT.	6,465	5,012	3,426	3,546	3,207	4,032	4,639	7,039	11,183	12,179	11,836	6,859	AC. FT.

A - 25 hour day

B - 23 hour day

E - ESTIMATED

NR - NO RECORD

\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW

# - E AND \*

**WATER YEAR SUMMARY**

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
110	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	79,427

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 59 45	121 42 00	NE 25 2N 2E				FEB 1950-DATE	FEB 50-DEC 52	1950	1952	121.72	USCGS

Station located at Pumping Plant No. 1, 0.7 mile east of Oakley, 2.6 miles northwest of Knightsen. Water is diverted from Sacramento-San Joaquin Delta by way of Old River, Rock Slough, and a dredged channel. A series of 4 pumping plants lift the water about 115 feet into canal. Recording flow meters on pumps. Records furnished by U. S. Bureau of Reclamation.

TABLE B-5 (CONT.)  
DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B95920	CALIFORNIA AQUEDUCT AT DELTA PUMPING PLANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2602	1935	2075	1666	1624	3546	1554	1235	4990	5597	5486	5192	1
2	2334	1936	3360	1639	2421	3617	1236	1236	6300	4952	5354	1628	2
3	2217	2884	1892	1538	2240	5180	1151	1398	3323	5154	5744	1538	3
4	2064	3360	1825	1164	1446	3076	916	1740	3022	6300	6300	927	4
5	2200	1878	1666	605	1120	2467	1150	2590	3179	5476	4904	1070	5
6	4127	1453	1950	335	651	1316	1390	1235	2871	6034	4396	1904	6
7	6300	1923	1946	348	506	1882	2240	1949	2687	6300	4740	1120	7
8	2997	1668	2510	0	915	1742	830	1949	4575	5614	4903	3355	8
9	2778	968	3360	0	1989	2074	830	1950	6300	5860	5153	1860	9
10	2355	2884	1939	0	2240	3361	829	1933	3722	6130	5608	1538	10
11	2602	3360	1668	93	914	1150	829	2644	2512	6133	6300	1378	11
12	2602	1645	1235	634	1949	829	829	5180	2500	5230	5376	1396	12
13	3618	1529	1236	350	1949	829	1326	3320	3469	6300	5376	1439	13
14	5180	1529	1235	283	1952	829	1470	3269	3363	6300	5376	1818	14
15	2287	1529	1989	914	1949	829	607	2080	4738	6300	5153	3359	15
16	978	1529	2240	1150	2509	1555	915	1118	6300	4895	4889	1644	16
17	1120	2194	829	768	3360	4480	1234	1213	3798	5198	5608	1440	17
18	1120	2240	1202	518	1949	1663	1482	2556	4261	6081	6300	1058	18
19	1212	1075	1527	698	1949	1630	1822	6300	3297	5432	5154	856	19
20	1845	929	1620	1120	1315	1553	2509	3723	3341	6300	4441	1118	20
21	2590	829	1621	417	1647	1150	3360	2463	4634	6300	4442	1456	21
22	1640	829	2420	417	1762	741	1483	829	5389	6194	4442	2590	22
23	1538	829	2240	426	2939	1120	1335	1818	6300	6300	4116	1091	23
24	1627	1475	1538	417	4480	1120	1616	2556	4989	6300	5062	795	24
25	1945	3360	1538	417	2403	506	1484	4738	4274	6300	4830	1030	25
26	1950	1949	1538	698	2412	916	1848	5187	5407	5831	3785	1025	26
27	2155	1948	830	1120	2861	1235	3057	1860	5154	6300	1950	700	27
28	4667	1234	830	506	2334	1235	3360	2333	5154	6300	1860	435	28
29	2025	1234	1390	1113		1150	1483	2684	6169	5559	1538	700	29
30	1722	1235	2240	1538		1557	1334	3156	6300	5522	1626	455	30
31	1934		1512	1533		4480		3639		5691	2645		31
MEAN	2462	1779	1774	723	1992	1897	1517	2577	4411	5877	4608	1530	MEAN
MAX.	6300	3360	3360	1666	4480	5180	3360	6300	6300	6300	6300	5192	MAX.
MIN.	978	829	829	0	506	506	607	829	2500	4894	1538	435	MIN.
AC. FT.	151,403	105,858	109,092	44,480	110,652	116,664	90,266	158,441	262,445	361,355	283,352	91,071	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF NO FLOW  
# - END \*

MEAN DISCHARGE
2,596

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME

TOTAL ACRE FEET
1,885,079

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
37 48 02	121 37 09	SE 35 1S 3E				OCT 1968-DATE				
Delta Pumping Plant located 4.5 miles south of Byron. Discharge computed from records of operation of pumps. Water diverted from Sacramento-San Joaquin Delta via Clifton Court Forebay and lifted about 240 feet into the canal. Prior to November 1969, water was diverted via Italian Slough.										

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	B89100	MARSH CREEK NEAR BYRON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	131	25	13	26	173	8.5					1
2		0	30	17	11	118	142	8.9					2
3		0	17	15	9.6	88	74	7.9					3
4		0	12	19	9.2	49	53	8.2					4
5		15	9.6	16	8.5	36	41	8.2					5
6		5.8	7.9	18	7.9	30	35	8.2					6
7		2.2	6.6	23	7.5	28	30	7.9					7
8		1.0	5.7	21	7.2	26	27	7.2					8
9		4.0	5.2	19	7.2	21	35	5.5					9
10	N	16	4.7	17	7.2	20	30	4.9	N	N	N	N	10
11	O	49	6.3	16	6.9	20	23	4.7	O	O	O	O	11
12		10	6.3	16	7.5	22	21	4.2					12
13		2.5	6.0	14	9.6	18	19	4.2					13
14		2.7	6.6	14	7.2	16	18	4.0					14
15	F	1.7	5.2	15	6.6	15	18	3.6	F	F	F	F	15
16	L	4.7	4.9	20	6.9	14	18	3.0	L	L	L	L	16
17		16	4.7	41	6.6	13	17	2.2					17
18	O	38	4.7	37	6.3	12	16	2.5	O	O	O	O	18
19		14	4.5	46	12	12	16	2.6					19
20	W	7.9	4.2	37	7.9	11	15	2.5	W	W	W	W	20
21		5.7	6.9	29	5.7	10	14	2.7					21
22		4.3	19	24	5.5	10	13	3.0					22
23		3.4	9.2	22	4.9	10	14	2.5					23
24		2.7	7.9	19	4.7	10	16	1.7					24
25		2.2	7.2	18	4.7	12	14	1.8					25
26		2.0	14	16	4.7	15	13	1.1					26
27		1.7	97	14	4.7	12	12	.1					27
28		1.5	45	13	5.5	57	9.6	0					28
29		1.6	44	12		39	8.9	0					29
30		3.2	34	12		68	9.6	0					30
31			26	12		45		0					31
MEAN	0	7.3	19.1	20.5	7.4	28.5	31.5	3.9	0	0	0	0	MEAN
MAX.	0	49	131	46	13	118	173	8.9	0	0	0	0	MAX.
MIN.	0	0	4.2	12	4.7	10	8.9	0	0	0	0	0	MIN.
AC. FT.	0	434	1,180	1,260	409	1,750	1,870	242	0	0	0	0	AC. FT.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	
9.9	438	5.78	4	1	1545	0					7,150

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 52 24	121 43 34	SW 2 1S 2E	3,880	11.62	1-31-1963	FEB 1953-DATE	FEB 1953-DATE	1953		177.87	USCGS

Station located 40 feet below highway bridge, 1.2 miles above Marsh Creek Dam, 5.0 miles west of Byron. Station affected by backwater from Marsh Creek Reservoir. Maximum gage height of record is 12.98 feet on December 23, 1955. Tributary to San Joaquin River. Records furnished by U. S. Geological Survey. Drainage area is 42.6 square miles.

TABLE B-5 (Cont.)

DAILY MEAN DISCHARGE  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	012200	BIDWELL CREEK NEAR FORT BIDWELL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.6	7.0	12	10	17	12	42	79	102	25	11	6.5	1
2	4.6	6.8	11	10	17	12	37	84	103	24	11	6.5	2
3	4.8	6.5	11	10	15	12	33	77	104	22	11	6.5	3
4	4.8	6.5	11	9.6	16	12	32	69	102	21	10	6.5	4
5	4.8	6.4	10	9.6	14	12	33	77	106	21	10	6.5	5
6	4.9	6.4	11	9.6	15	13	32	117	104	21	11	6.4	6
7	6.5	7.3	12	9.6	14	12	33	155	101	20	10	6.1	7
8	6.5	9.2	12	9.6	15	11	35	230	93	20	10	6.1	8
9	6.2*	11	13	9.6	14	13	36	237	85	21	9.6	6.1	9
10	5.8	13	13	9.6*	13	11	34	194	82	21	9.6	6.1	10
11	5.6	14	12	9.7	13	11	34	162	83	21	9.4	6.1	11
12	5.4	26	12	9.3	13	11	34	146	82	19	9.3	6.1*	12
13	5.4	23	12	9.6	13	11	33	121	81	18	9.0	6.0	13
14	5.2	19	11	10	13	15	34	96	76	18	8.7	5.8	14
15	5.2	16	11	13	13	23	39	92	73	17	8.6	5.8	15
16	5.2	16	11	17	13	29	46	91	68	16	8.6	5.5	16
17	5.2	16	11	19	13	53	55	90	64	16	8.3	5.4	17
18	5.2	15	11	21	12	47	63	82	59	15	8.3	5.4	18
19	5.0	14	11	24	12	43	56	74	55	15	8.3	5.0	19
20	5.4	13	11	24	12	40	52	67	50	14	8.3	5.0*	20
21	5.7	13	11	25	12	37	54	63	43	14	8.3	5.0	21
22	6.1	12	11	23	12	37	63	64	39	14	8.0*	5.0	22
23	6.6	12	11	21	13	37	68	72	36	13	8.0	5.0	23
24	6.9	12	10	20	11	40	61	84	33	13	7.8	5.0	24
25	7.7	11	11	20	11	42	53	103	30	13	7.7	5.0	25
26	7.7	11	9.6	19	11	41	48	125	28	12	7.5	5.0	26
27	7.3	11	9.8	18	11	42	44	139	28	12	7.3	4.8	27
28	7.1	11	10	17	11	38	43	141	26	12	7.0	4.9	28
29	7.1	11	11	17	11	42	45	113	25	12	6.8	5.0	29
30	7.1	12	11	17	11	49	60	102	24	11	6.8	5.0	30
31	6.8	10	10	17	11	44	44	97	24	11	6.5	5.0	31
MEAN	5.9	12.3	11.1	15.1	13.2	27.5	44.4	111	66.2	16.8	8.8	5.6	MEAN
MAX.	7.7	26.0	13.0	25.0	17.0	53.0	68.0	237	106	25.0	11.0	6.5	MAX.
MIN.	4.6	6.4	9.6	9.3	11.0	11.0	32.0	63.0	24.0	11.0	6.5	4.8	MIN.
AC. FT.	362	730	683	928	732	1690	2642	6829	3937	1035	539	335	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- E AND \*

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 28.2	DISCHARGE 261 GAGE HT. 4.33 MO. DAY 05 08 TIME 1845	DISCHARGE 4.6 GAGE HT. 3.06 MO. DAY 10 01 TIME 0000	ACRE FEET 20443

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 52 57	120 10 26	SE6 46N 16E	682	5.64	12/24/64	APR 55-OCT 57 8 MAY 58-DATE	APR 55-OCT 57 8 MAY 58-DATE	1958		0.00	LOCAL
Station located E of New Pine Creek-Fort Bidwell Highway, 2.0 mi. NW of Fort Bidwell. Tributary to Upper Alkali Lake. Stage-discharge relationship affected by ice at times. Drainage area is approximately 25.6 sq. mi.											
8 - Irrigation season only.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	G15150	CEDAR CREEK NEAR CEDARVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.5	1.0	3.9	4.9	7.1	4.3	30	26	7.8	29	0.8	0.5	1
2	0.5	0.7	3.3	4.6	6.1	4.5	29	25	7.9	17	0.8	0.5	2
3	0.5	0.6	3.0	4.4	5.9	4.6	28	24	8.1	11	0.7	0.5	3
4	0.5	0.6	2.6	4.3	5.8	4.4	27	23	8.3	7.1	1.8	0.4	4
5	0.5	0.6	2.4	3.7	5.2	4.5	26	24	8.3	5.3	1.7	0.5	5
6	0.5	0.6	2.6	3.4	5.1	5.8	25	25	8.5	4.1	1.7	0.5	6
7	1.2	1.7	5.1	3.1	5.4	6.2	23	28	8.3	3.3	1.4	0.4	7
8	1.0	1.9	5.5	2.9	5.3	5.5	22	29	7.6	2.9	1.2	0.4	8
9	0.8*	1.3	4.2	2.6	5.1	5.5	21	27	6.8	2.6	1.1	0.4	9
10	0.8	1.5	3.5	2.3*	5.2	6.2	20	25	6.2	2.4	1.1	0.4	10
11	0.8	1.6	3.2	2.2	5.2	6.7	21	23	5.8	2.3	1.0	0.4	11
12	0.7	4.5	2.7	2.1	5.2	7.2	21	22	5.7	2.1	1.0	0.3*	12
13	0.8	2.6	2.6	3.4	5.2*	7.6*	20	19	5.5	1.9	1.0	0.3	13
14	0.8	2.5	2.3	8.2	5.1	13	20	17	5.1	1.8	1.0	0.3	14
15	0.7	2.4	2.2	33	5.1	26	22	16	4.9	1.7	1.0	0.2	15
16	0.7	3.1	2.3	32	4.9	30	23	14	4.7	1.5*	0.9	0.2	16
17	0.7	3.8	6.1	26	4.8	38	26	14	4.5	1.4	0.9	0.2	17
18	0.7	3.3	4.2	33	4.9	31	27	13	4.4	1.4	0.8	0.2	18
19	0.7	2.8	3.6	42	4.7	29	24	12	4.2	1.3	0.8	0.2	19
20	0.7	2.6	3.1	28	4.5	26	23	12	4.1*	1.2	0.8	0.2	20
21	0.7	2.4	3.1	24	4.6	25	24	11	3.9	1.1	0.9	0.2	21
22	0.7	2.2	2.9	17	4.4	24	25	9.8	3.8	1.1	0.8*	0.2	22
23	0.7	2.1	2.7	15	4.4	23	25	9.6	3.5	1.1	0.7	0.2	23
24	0.6*	2.0	2.5	13	4.4	24	22	9.9	3.2	1.0	0.7	0.2	24
25	0.6	1.9	3.9	12 *	4.3	25	21	10	3.0	1.1	0.7	0.2	25
26	0.6	1.9	3.2	10	4.4	27	20	10	2.9	1.0	0.6	0.2	26
27	0.6	2.0	3.9	9.2	4.1	27	18	11	2.7	1.0	0.6	0.2	27
28	0.7	2.5*	5.3	8.5	4.0	25	16	11	2.7	1.0	0.6	0.2	28
29	0.7	3.1	12	8.0		35	17	10	2.6	0.9	0.6	0.2	29
30	0.6	4.3	8.4	7.6		40	22	9.1	6.9	0.8	0.6	0.2	30
31	0.7		6.7	7.3		32		8.3		0.8	0.6		31
MEAN	0.7	2.1	4.0	12.2	5.0	18.5	22.9	17.0	5.4	3.6	0.9	0.3	MEAN
MAX.	1.2	4.5	12.0	42.0	7.1	40.0	30.0	29.0	8.5	29.0	1.8	0.5	MAX.
MIN.	0.5	0.6	2.2	2.1	4.0	4.3	16.0	8.3	2.6	0.8	0.6	0.2	MIN.
AC. FT.	42	127	244	749	278	1137	1365	1047	321	223	57	18	AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - E AND \*

MEAN DISCHARGE
7.7

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
63	4.47	01	18	1915

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
0.2	2.41	09	17	1930

TOTAL ACRE FEET
5608

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 31 48	120 11 15	SE6 42N 16E	81	5.43	1/23/70	MAY 58-DATE	MAY 58-DATE	1958		0.00	LOCAL

Station located above Cedarville-Alturas Highway culvert, immediately W of Cedarville. Tributary to Middle Alkali Lake. Stage-discharge relationship affected by ice at times. Drainage area is approximately 25 sq. mi.

**TABLE B-5 (CONT.)**  
**DAILY MEAN DISCHARGE**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	G17150	EAGLE CREEK AT EAGLEVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10							4.85						10
11													11
12						4.95						3.07	12
13													13
14								22.7					14
15													15
16										13.2			16
17													17
18													18
19													19
20									46.1				20
21													21
22											4.68		22
23													23
24													24
25				5.43									25
26													26
27													27
28		3.95											28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.			GAGE HEIGHT	DATA INSUFFICIENT TO COMPUTE DAILY MEAN DISCHARGE.					MEASURED DISCHARGE	PUBLISHED.			MEAN MAX. MIN. AC. FT.

**WATER YEAR SUMMARY**

! - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF NO FLOW  
 # - E AND \*

MEAN DISCHARGE	MAXIMUM					MINIMUM					TOTAL ACRE FEET
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 18 40	120 07 27	SE23 40N 16E				MAY 58-DATE	MAY 58-DATE	1958		0.00	LOCAL
Station located 0.6 mi. SW of Eagleville. Tributary to Middle Alkali Lake. Stage-discharge relationship affected by ice at times. Drainage area is 6.36 sq. mi.											

TABLE B-5 (Cont.)

## DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	631140	PINE CREEK AT EAGLE LAKE NEAR SUSANVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	9.1	32	17	1.1	355	94	45	0.0	0.0	0.0	1
2	0.0	0.0	5.5	29	23	0.0	297	97	41	0.0	0.0	0.0	2
3	0.0	0.0	5.3	29	17	0.0	261	96	38	0.0	0.0	0.0	3
4	0.0	0.0	5.0	28	16	0.0	205	93	34	0.0	0.0	0.0	4
5	0.0	0.0	4.7	27	19	0.3	203	93	31	0.0	0.0	0.0	5
6	0.0	0.0	4.3	26	19	1.9	204	92	30	0.0	0.0	0.0	6
7	0.0	0.0	10	26	16	3.4	185	95	29	0.0	0.0	0.0	7
8	0.0	0.0	25	24	7.2	2.7	196	99 *	27	0.0	0.0	0.0	8
9	0.0	0.0	33	23	3.7	1.0	232	105	25	0.0	0.0	0.0	9
10	0.0	0.0	52	22	3.0	1.7	223	113	23	0.0	0.0	0.0	10
11	0.0	0.0	38	26	3.2	1.7	192 *	117	20	0.0	0.0	0.0	11
12	0.0	0.0	29	31	3.5	2.3*	196	116	18	0.0	0.0	0.0	12
13	0.0	23	14	40	4.0	3.5	208	111	15	0.0	0.0	0.0	13
14	0.0	91	8.2	61	4.6	10	204	107	13	0.0	0.0	0.0	14
15	0.0	73	8.3	177	4.4	24	204	98 *	11	0.0	0.0	0.0	15
16	0.0	51	6.2	434	5.6	75	216	89	9.6	0.0	0.0	0.0	16
17	0.0	48	8.1	388	5.1	173	232	86	9.3	0.0*	0.0	0.0	17
18	0.0	43	16	490	5.6	266	256	87	7.9	0.0	0.0	0.0*	18
19	0.0	27	20	550	5.7	218	264	89	6.8	0.0	0.0	0.0	19
20	0.0	24	22	484	3.2	159	196	85	7.0	0.0	0.0	0.0	20
21	0.0	22	19	341	4.1	114	177	74	5.8*	0.0	0.0	0.0	21
22	0.0	18	16	282	3.7	115	188	62	4.4	0.0	0.0	0.0	22
23	0.0	15	15	234	2.1	131	212	51	3.5	0.0	0.0*	0.0	23
24	0.0	12	14	134 *	1.0	152	216	44	2.3	0.0	0.0	0.0	24
25	0.0	9.0	11	92	0.4	189	180	41	0.8	0.0	0.0	0.0	25
26	0.0	6.0	11	75	3.0	224	131	39	0.0	0.0	0.0	0.0	26
27	0.0	3.1	10	66	3.4	270 *	109	38	0.0	0.0	0.0	0.0	27
28	0.0	1.9	10	36	5.9	246	96	40	0.0	0.0	0.0	0.0	28
29	0.0	9.8	21	38		297	92	43	0.0	0.0	0.0	0.0	29
30	0.0	19	36	29		559	94	46	0.0	0.0	0.0	0.0	30
31	0.0		34	25		567		47		0.0	0.0	0.0	31
MEAN	0.0	16.5	16.8	138	7.5	122	200	80.2	15.2	0.0	0.0	0.0	MEAN
MAX.	0.0	91.0	52.0	550	23.0	567	355	117	45.0	0.0	0.0	0.0	MAX.
MIN.	0.0	0.0	4.3	22.0	0.4	0.0	92.0	38.0	0.0	0.0	0.0	0.0	MIN.
AC. FT.		983	1033	8527	415	7554	11948	4933	907				AC. FT.

## WATER YEAR SUMMARY

E - ESTIMATED  
 NR - NO RECORD  
 \* - DISCHARGE MEASUREMENT OR  
 OBSERVATION OF FLOW MADE THIS DAY.  
 - - 8 AND \*

MEAN
DISCHARGE
50.1

MAXIMUM
DISCHARGE
656
GAGE HT.
5.25
MO.
03
DAY
30
TIME
2230

MINIMUM
DISCHARGE
0.0
GAGE HT.
1.37
MO.
10
DAY
01
TIME
0000

TOTAL
ACRE FEET
36301

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 39 56	120 47 07	NEL 32N 10E	936	5.60	1/24/70	JUL 56-DATE	JUL 56-DATE	1970		0.00	LOCAL
Station located above mouth, 18 mi. NW of Susanville. Prior to October 1, 1969, gage located at site 1 mi. upstream at different datum. Tributary to Eagle Lake. Stage-discharge relationship affected by ice at times. Drainage area is approximately 227 sq. mi.											



TABLE B-5 (Cont.)

**DAILY MEAN DISCHARGE**  
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	661705	LONG VALLEY CREEK NEAR HALLELUJAH JCT.

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.0*	1.9	14	6.8	16	52	76	26	2.8	0.9	0.9	0.9	1
2	1.0	1.9	8.5	5.2	14	45	59	26	2.7	0.9*	0.9	0.9	2
3	1.1	2.1	8.7	5.4	8.9	40	56	26	2.6	0.9	0.9	0.9	3
4	1.1	1.8	7.7	5.2	9.9	36	54	26	2.7	0.9	0.9	0.9*	4
5	1.1	2.3	9.9	5.4	9.9	30	50	26	2.6	0.9	0.9	0.9	5
6	1.1	3.0	11	5.4	11	38	48	27	2.5	0.9	0.9	0.9	6
7	1.1	3.0	11	5.6	8.5	32	48	27	2.4	0.9	0.9	0.9	7
8	1.2	2.6	8.6	5.6	11	28	47	28	2.3	0.9	0.9	0.9	8
9	1.2	2.3	7.9	5.6	11	25	45	28	2.2	0.9	0.9	0.9	9
10	1.2	2.6	7.3	5.9	9.5	30	43	28	2.1	0.9	0.9	0.9	10
11	1.2	3.0	9.7	6.1	8.7	29	43	28	2.0	0.9	0.9	0.9	11
12	1.2	10	7.5	6.5	8.4	31	42	28	2.0	0.9	0.9	0.9	12
13	1.2	5.6	13	23	7.0	36	40	28	1.9	0.9	0.9	0.9	13
14	1.2	5.5	9.3	94	5.9*	33	40	28	1.8	0.9	0.9	0.9	14
15	1.2	5.3	7.9	61	7.6	37	40	27	1.7	0.9	0.9	0.9	15
16	1.2	4.6	8.7	55	7.3	36	38	26	1.7	0.9	0.9	0.9	16
17	1.3	6.3	14	46	7.3	38	34	27	1.6	0.9	0.9	0.9	17
18	1.3	7.7	11	40	6.4	38	34	25	1.5	0.9	0.9	0.9	18
19	1.3	4.6	7.9	47	32	36	35	22	1.5	0.9	0.9	0.9	19
20	1.3	4.5	8.6	36	133	35	35	19	1.4	0.9	0.9	0.9	20
21	1.3	4.5	9.5	34	119	35	34	16	1.4	0.9	0.9	0.9	21
22	1.4	4.3	9.4	32	107	38	34	8.4	1.3	0.9	0.9	0.9	22
23	3.4	3.7	7.9	31	96	38	33	7.1	1.3	0.9	0.9	0.9	23
24	2.2	4.3	7.3	29	80	37	33	6.4	1.2	0.9	0.9	1.0	24
25	2.0	3.8	9.3	27	77	38	33	5.4	1.2	1.0	0.9	1.0	25
26	1.9	4.1	8.9	26	70	37	32	4.5	1.1	1.0	0.9	1.0	26
27	1.8	4.5	14	25	63	42	30	3.6	1.1	0.9	0.9	1.0	27
28	1.8	4.1	12	23	57	48	30	3.0	1.1	0.9	0.9	1.0	28
29	1.7	4.3*	14	22		57	28	2.9	1.0	0.9	0.9	1.0	29
30	1.7	5.1	14	20		68	27	2.9	1.0	0.9	0.9	1.0	30
31	1.9		12	18		76		2.8		0.9	0.9		31
MEAN	1.4	4.1	10.0	24.4	35.8	39.3	40.7	19.0	1.8	0.9	0.9	0.9	MEAN
MAX.	3.4	10.0	14.0	94.0	133	76.0	76.0	28.0	2.8	1.0	0.9	1.0	MAX.
MIN.	1.0	1.8	7.3	5.2	5.9	25.0	27.0	2.8	1.0	0.9	0.9	0.9	MIN.
AC. FT.	88	245	616	1503	1988	2418	2422	1168	107	56	55	55	AC. FT.

WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - DISCHARGE MEASUREMENT OR  
OBSERVATION OF FLOW MADE THIS DAY.  
- E AND \*

MEAN
DISCHARGE
14.8

MAXIMUM
DISCHARGE
138
GAGE HT.
3.69
MO. DAY TIME
02 20 1715

MINIMUM
DISCHARGE
0.9
GAGE HT.
2.20
MO. DAY TIME
06 30 1115

TOTAL
ACRE FEET
10720

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.S.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 46 55	121 04 14	SW3 22N 17E	3520	9.16	1/24/70	OCT 70-DATE	OCT 70-DATE	1970		0.00	LOCAL
Station located at U. S. Highway 70 bridge, 2 mi. W of Hallelujah Junction. Tributary to Honey Lake. Stage-discharge relationship affected by ice at times. Drainage area is approximately 100 sq. mi.											

TABLE B-6

DIVERSIONS

This table includes diversion data on the Sacramento River, furnished by the U. S. Bureau of Reclamation, and on the Mokelumne River, furnished by the East Bay Municipal Utility District. The data are published as received from these agencies.

Additional diversion data not included in this table may be obtained from the Water Rights Division of the State Water Resources Control Board.

TABLE B-6 (Continued)  
DIVERSIONS -- FEATHER AND YUBA RIVERS  
October 1973 through September 1974

WATER USER	MILE AND BANK	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT-SEPT. ACRE-Feet	
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.
FEATHER RIVER															
--NICOLAUS BRIDGE--	9.2														
Hematani Brothers	9.75R	1-20 1-30	5						54	2,385	2,673	2,774	2,779	1,496	12,166
--BEAR RIVER--															
Garden Highway Mutual Water Company	13.1R	2-20 1-24							137	2,971	3,484	3,298	2,972	792	13,654
Feather Water District b	15.2R	3-14							208	1,561	1,982	1,950	1,268	472	7,441
Plumas Mutual Water Company	17.5L	2-18	458						25	2,192	2,184	1,922	1,686	1,314	9,781
Tudor Mutual Water Company	18.4R	2-30 1-35								167	1,372	938	307	289	3,073
Feather Water District b	20.4R	4-26	217							2,238	3,652	2,765	2,335	1,206	12,413
Oswald Water District	21.4R	2-16	148							206	387	200	151	185	1,277
--YUBA RIVER--															
--GAGING STATION - FEATHER RIVER AT YUBA CITY--	28.0#														
--10TH STREET BRIDGE--	28.2														
City of Yuba City c	29.6R	3-20	292	157	146	182	156	166	221	530	666	728	727	593	4,564
Sutter Extension Water District d	38.1R	1-36 1-46 1-48							873	9,818	7,686	7,109	6,623	426	32,535
--HONCUT CREEK--	43.7L														
--FEATHER RIVER OUTLET AT THERMALITO AFTERBAY	58.2R														
--THERMALITO DIVERSION DAM--	65.6														
Western Canal Outlet at Thermalito Afterbay e	19/3-18D**	Gravity	14,230	2,315					1,611	45,494	43,032	44,926	41,247	10,729	203,584
Richvale Canal Outlet at Thermalito Afterbay e	19/3-18D**	Gravity	204						1,644	26,791	23,768	23,608	22,963	6,901	105,879
PG&E Outlet at Thermalito Afterbay e	19/3-19E**	Gravity								1,130	677	664	665	140	3,276
Sutter-Butte Canal Outlet at Thermalito Afterbay e	18/3-5B**	Gravity	19,850	5,024	605			3,112	14,955	105,721	89,714	96,755	93,046	50,440	479,222
--OROVILLE DAM--	70.4														
FEATHER RIVER, TOTAL DIVERSIONS			35,404	7,496	751	182	156	3,278	19,728	201,204	181,277	187,768	176,769	74,983	888,865

\*\* Diversions are via Thermalito Afterbay. Figures represent North Townships, East Ranges, and Sections. Letters represent the 1/4-1/4 sections which are lettered from A through R, excluding I and O, similar to the numbering of sections within a township.  
# Station located on bridge at or near center of stream.

a Includes an undetermined amount of spill to river.  
b Records furnished by U. S. Bureau of Reclamation.  
c Records furnished by City of Yuba City.  
d Records furnished by Sutter Extension Water District.  
e Records obtained from Report of Operations: California Water Project.

<u>YUBA RIVER</u>															
--HIGHWAY 99E BRIDGE--	0.0														
--DAGUERRE POINT DAM--	11.0														
Hallwood Irrigation District	11.0R	Gravity	3,068						2,969	NR	15,999	13,954	12,924	10,076	NR
Cordus Irrigation District	11.0R	Gravity	7,498						657	NR	12,980	15,430	15,680	6,528	NR
Browns Valley Irrigation District	11.7R	1-24 1-16 1-12 1-6	1,610						329	3,911	3,380	2,773	2,989	868	15,860
--DRY CREEK--	13.1R														
--DEER CREEK--	21.8L														
--ENGLEBRIGHT DAM--	22.8														
YUBA RIVER, TOTAL DIVERSIONS			12,176						3,955	NR	32,359	32,157	31,593	17,472	NR

Diversions for the irrigation period April through September are measured under a cooperative agreement between the Department and the Yuba County Water Agency.

TABLE B-6 (Continued)  
MISCELLANEOUS DIVERSIONS - SACRAMENTO RIVER - SACRAMENTO TO RED BLUFF \*  
October 1973 through September 1974

WATER USER	MILE AND BANK	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--TOWER BRIDGE - SACRAMENTO--	0.0														
--GAGING STATION - SACRAMENTO RIVER AT SACRAMENTO--	0.6L														
--AMERICAN RIVER--	1.1L														
Netomas Central Mutual Water Co.	2.15L		0						0	24	19	11	2	0	56
Netomas Central Mutual Water Co.	3.0L		0						0	0	23	44	4	0	71
--STAGE STATION - SACRAMENTO RIVER AT SACRAMENTO WEIR	4.0R														
Netomas Central Mutual Water Co.	6.1L		91						96	1,711	1,906	1,815	1,798	768	8,185
Netomas Central Mutual Water Co.	7.5L		0						0	0	40	63	15	0	118
University of California	10.25L		0						0	0	105	269	227	0	601
Hanks, C. A. and Sons	11.1R		0						0	193	30	161	75	0	459
Woodland Farms, Ltd	12.0R		312						0	8,789	11,054	5,766	6,042	1,642	33,605
Netomas Central Mutual Water Co.	14.1L		0						0	1,072	1,975	2,438	2,959	1,360	9,804
Latter Day Saints Church	15.1R		0						0	0	25	33	26	0	84
Netomas Central Mutual Water Co.	16.0L		75						129	9,398	5,260	8,849	5,017	1,734	30,462
Hershey, Davidella, et al	16.27R		0						0	0	0	0	0	0	0
Deseret Farms of California	16.62R		0						0	34	77	44	144	45	344
Deseret Farms of California	17.0R		0						0	0	102	86	18	0	206
--CROSS CANAL - RECLAMATION DISTRICTS 1000 and 1001--	19.6L														
Pleasant Grove-Verona Mutual Water Company	(0.75N)a		0						0	0	0	0	0	0	0
Netomas Central Mutual Water Co.	(1.0S) a		0						842	5,693	4,696	4,635	4,842	1,186	21,894
Netomas Central Mutual Water Co.	(2.0S) a		0						788	9,608	8,575	8,918	8,541	2,101	38,531
Pleasant Grove-Verona Mutual Water Company	(3.3N) a		713						0	0	0	0	0	0	713
Pleasant Grove-Verona Mutual Water Company	(3.35N)a		0						19	2,025	2,465	2,634	1,776	362	9,281
Pleasant Grove-Verona Mutual Water Company	(3.45N)a		0						40	2,524	2,030	2,473	2,397	980	10,444
--FEATHER RIVER--	20.9L														
--SACRAMENTO SLOUGH--	21.2L														
Deseret Farms of California	22.5R		0						0	139	145	267	327	0	878
Purlan, Antonio, et ux.	26.8L		0						0	0	0	18	0	0	18
--STAGE STATION - SACRAMENTO RIVER AT FREMONT WEIR, WEST END	27.9R														
Hershey, Davidella, et al.	28.1R		0						0	0	0	0	0	0	0
Purlan, Antonio, et ux.	28.2L		0						0	79	80	7	0	0	166
Wallace Construction Co., Inc.	29.7R		0						0	0	0	0	0	0	0
Purlan, Antonio, et ux.	30.5L		0						0	69	55	114	23	0	261
Wallace Construction Co., Inc.	30.7R		0						0	0	0	0	0	0	0
Wallace Construction Co., Inc.	32.1R		0						0	489	523	609	446	71	2,138
Sutter Mutual Water Co.	32.4L		0						177	3,063	2,932	2,865	3,063	1,145	13,245
Leiser, Martha S., et al.	33.75L		0						0	229	176	176	199	17	797
--GAGING STATION - SACRAMENTO RIVER AT KNIGHTS LANDING--															
River Garden Farms Co.	34.5R		0						1,529	4,221	3,216	2,949	3,098	111	15,124
Title Insurance and Trust Co.	35.2L		0						0	64	69	48	0	0	181
Sutter Mutual Water Co.	40.6L		0						1,143	6,872	6,284	5,613	5,883	1,470	27,265
River Garden Farms Co.	41.0R		0						350	1,089	1,125	864	635	95	4,158
Reclamation District No. 108	43.1R		0						1,148	6,252	4,253	3,235	1,069	0	15,957
River Garden Farms Co.	43.1R		0						4	1,508	755	787	293	6	3,353
Reclamation District No. 108	43.4R		0						0	150	154	130	58	0	492
Clauss, John, Jr., et al.	44.2L		0						37	264	232	126	108	32	799
Clauss, John, Jr., et al.	45.6L		0						0	58	130	0	186	0	374
Clauss, John, Jr., et al.	46.45L		0						0	0	0	0	0	0	0
Henle, John R., et ux.	46.5L		0						0	0	98	75	0	0	173
Oji, Masanobu, et al	48.7L		0						0	777	847	798	698	264	3,384
Hlatt, Glenwood J., et al.	49.0L		0						0	127	292	129	190	2	740
Hlatt, Glenwood J., et al.	49.7L		0						0	305	335	371	333	36	1,380

TABLE B-6 (Continued)  
- MISCELLANEOUS DIVERSIONS - SACRAMENTO RIVER - SACRAMENTO TO RED BLUFF\*  
October 1973 through September 1974

WATER USER	MILE AND BANK	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT.-SEPT. ACRE-Feet	
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.
Reclamation District No. 108	51.1R		0						1,116	6,424	5,054	5,017	4,878	1,532	24,021
Lesl and Montna	51.2L		0						170	708	607	664	0	0	2,149
Reclamation District No. 108	53.8R		0						177	698	817	1,009	1,358	740	4,799
Chaplin, May B., et al.	55.1L		0						0	672	746	735	812	238	3,203
Chaplin, May B., et al.	56.3L		0						0	0	0	0	0	0	0
Reclamation District No. 108	56.4R		0						727	3,711	2,865	3,943	4,293	1,244	16,783
Chaplin, May B., et al.	56.95L		0						120	869	795	967	580	0	
Pelger Mutual Water Co.	57.25L		0						309	1,554	776	290	1,162	73	4,164
Title Insurance and Trust Co.	58.3L		0						0	0	52	154	23	0	229
Reclamation District No. 108	59.15R		0						0	101	153	442	176	43	915
Larner, William A., et ux.	60.4L		0						31	489	620	529	453	5	2,127
Reclamation District No. 108	61.05R		0						0	0	0	0	0	0	0
Reclamation District No. 108	61.2R		0						0	0	106	58	68	0	232
Reclamation District No. 108	62.3R		0						0	89	51	48	48	31	267
Reclamation District No. 108	62.6R		0						0	0	27	20	15	0	62
Reclamation District No. 108	63.2R		0						9,475	32,993	29,356	20,416	18,088	4,937	115,265
Sutter Mutual Water Co.	63.75L		0						12,226	53,190	49,850	45,178	40,169	6,570	207,183
Oji Brothers Farm, Inc.	63.9L		0						111	147	346	277	188	0	1,069
--STAGE STATION - SACRAMENTO RIVER AT TISDALE WEIR--	64.2L														
Tisdale Irrigation and Drainage Co.	64.4L		0						0	55	215	355	303	0	928
Tisdale Irrigation and Drainage Co.	67.1L		0						47	1,234	1,067	1,040	1,130	261	4,779
Winship, Alan D., et al.	67.1L		0						0	0	0	44	40	2	86
Newhall Land and Farming Co.	67.5L		0						95	1,560	1,756	415	434	222	4,482
Meridian Farms Water Co.	68.8L		0						0	0	0	0	0	0	0
Reclamation District No. 108	70.4R		0						0	1,372	1,018	1,018	755	61	4,224
Meridian Farms Water Co.	71.1L		0						562	1,319	1,447	1,537	1,555	273	6,693
Andreotti, Otterina, et al.	72.1L		0						39	611	665	797	841	226	3,179
Meridian Farms Water Co.	74.8L		0						27	862	751	783	964	187	3,574
Davis, Olive Percy, et al.	77.8R		0						14	0	0	43	54	35	146
Davis, Olive Percy, et al.	78.15R		25						879	3,251	3,226	3,080	3,355	1,003	14,819
Davis, Olive Percy, et al.	78.75R		0						67	797	552	575	435	234	2,660
Davis, Olive Percy, et al.	78.8R		0						734	2,385	2,548	1,574	1,591	0	8,832
Meridian Farms Water Co.	80.0L		2						1,132	3,709	3,763	3,918	3,865	852	17,241
Tomlinson, Fred L., et al.	81.5L		0						0	0	0	0	0	0	0
Tomlinson, Fred L., et al.	81.8L		0						0	48	138	69	48	0	303
Reclamation District No. 1004	85.3L		0						0	8	17	9	2	0	36
Swinford Trect Irrigation Co.	87.7R		0						0	0	90	90	0	0	180
Colusa Irrigation Co.	89.2R		0						0	79	294	314	142	0	829
Reclamation District No. 1004	89.25L		0						0	499	500	282	705	340	2,326
Roberts Ditch Irrigation Co., Inc.	90.7R		11						178	550	662	433	530	309	2,673
--STAGE STATION - SACRAMENTO RIVER AT COLUSA WEIR--	92.4L														
Lowvorn, Wilson M., et ux.	93.15R		0						0	264	190	76	39	0	569
Wilbur, Roger C.	95.25L		25						0	302	331	291	129	51	1,129
Lewis, Joan, et al.	95.6L		570						0	508	1,030	422	217	99	2,846
Griffin, J. T., et al.	95.75L		0						0	69	322	333	325	122	1,171
Griffin, J. T., et al.	95.8L		0						0	645	53	35	33	0	766
Wells, Joyce	98.6L		0						0	203	262	62	111	0	638
Hunter Estate	98.6L		0						0	280	361	85	154	0	880
Sectone Mutual Water Co.	99.25L		90						0	860	1,374	1,530	1,079	103	5,036
Forry, David	99.8L		125						166	499	570	539	323	37	2,259
Forry, David	100.0L		0						0	0	41	81	69	0	191
Colusa Properties, Inc.	101.8L		0						97	180	275	149	130	0	831
Carter, Robert E.	102.9L		0						0	0	0	0	0	0	0
--STAGE STATION - SACRAMENTO RIVER AT MOULTON WEIR--	103.6R														
Maxwell Irrigation District	103.8R		0						47	94	0	0	12	41	194

TABLE B-6 (Continued)  
MISCELLANEOUS DIVERSIONS - SACRAMENTO RIVER - SACRAMENTO TO RED BLUFF \*  
October 1973 through September 1974

WATER USER	MILE AND BANK	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT. ACRE-FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
Zumwalt Orchards, Inc.	104.8L		9						0	31	112	52	0	70	274
Cannell, Fred, et al.	106.0R		0						0	109	161	109	0	0	379
Reclamation District No. 1004	112.1L		3,438						434	10,368	10,311	10,483	9,582	4,063	48,679
Princeton-Codora-Glenn Irrigation District	112.4R		667						993	3,303	3,734	4,150	3,553	1,203	17,603
--GAGING STATION - SACRAMENTO RIVER AT BUTTE CITY--	115.8L														
Princeton-Codora-Glenn Irrigation District	123.9R		87						3,238	10,520	9,545	9,637	8,367	3,312	44,706
Provident Irrigation District	124.2R		1,452						5,908	12,266	9,441	8,468	5,062	1,039	43,646
--GAGING STATION - SACRAMENTO RIVER AT ORD FERRY--	130.8R														
M. & T., Incorporated	141.5L		45						2	351	220	1,220	1,486	663	3,987
--GAGING STATION - SACRAMENTO RIVER AT HAMILTON CITY--	149.5L														
Glenn-Colusa Irrigation District	154.8R		16,308						74,183	165,719	159,242	158,124	146,369	60,416	780,361
Provident Irrigation District	154.8R	Gravity	0						816	1,565	1,565	1,565	1,043	0	6,554
--RED BLUFF BRIDGE--	193.45														
SACRAMENTO RIVER, TOTAL DIVERSIONS			24,055						120,422	394,946	370,153	350,954	317,635	104,064	1,682,229

\* All data furnished by the U. S. Bureau of Reclamation for October and the period April through September.  
# Mile 19.6L Cross Canal. Distance from Sacramento River and bank are shown in parentheses.

TABLE 8-6 (Continued)  
DIVERSIONS - MOKELUMNE RIVER  
October 1973 through September 1974

WATER USER	MILE AND BANK ABOVE NEW HOPE BRIDGE	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT.-SEPT. ACRE-FEET	
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.		SEPT.
BELOW WOODBRIDGE DAM															
Albin G. Steffen	8.7R	1-12	43					NO DIVERSION		583	553	536	510	342	3,023
	10.6R	1-16						99	400						
	12.7R	1-12						113	398						
Cranston Vineyards	12.7L	1-6										23			23
Mrs. Julie Blattler	15.5R	1-4							4	10	12	9	8	6	49
W. G. Taddei	15.6R	1-6								5	25	24	12		66
Mrs. Rose J. Kinde	16.8R	1-6							2	3	60	116	79		260
James Piazza	17.96R	1-6								29	93	14	30	36	202
Warren Hargrave	18.18L	1-7						NO DIVERSION							
--GAGING STATION - MOKELUMNE RIVER AT WOODBRIDGE--	19.2R														
--SACRAMENTO ROAD BRIDGE--	19.8														
--WOODBRIDGE IRRIGATION DISTRICT DAM--	19.9														
MOKELUMNE RIVER BELOW WOODBRIDGE DAM															
Total diversions			43					212	804	1,283	1,346	1,290	1,278	888	7,144
Average cubic feet per second			1					3	14	21	23	21	21	15	10

<u>WOODBRIDGE DAM TO CAMANCHE DAM</u>															
--WOODBRIDGE IRRIGATION DISTRICT DAM--	19.9														
Woodbridge Irrigation District	19.9L	Gravity	7,060					2,010	3,430	16,380	20,050	21,340	20,770	12,760	103,800
Arthur J. Hoffman	21.85R	1-10							66	121	14	11	11	10	233
C. H. Pillhardt	22.1R	1-6									3	3	4		10
James W. Baum a	22.5R	1-5								4	1	3		6	14
Robert Peters	23.03R	1-3									1	1	1	1	4
Cecil Humbert	23.4R	1-4								1	49	20	17	57	144
--SOUTHERN PACIFIC RAILROAD BRIDGE--	23.6														
Occidental Petroleum Corporation	24.0L	1-4								36	2	16	12		66
	24.12L	1-1 1/2						NO DIVERSION							
--HIGHWAY 99 BRIDGE--	24.2														
R. Vaccarezza	24.8L	1-5						NO DIVERSION							
Ray A. Mettler	25.2R	1-10								8	17	17	2		44
--CENTRAL CALIFORNIA TRACTION COMPANY BRIDGE--	25.6														
W. P. Johnson	26.3L	1-4									14	12	9		35
Richard Wagers	26.35L	1-2								1	1	1	1	1	5
Nakagawa Brothers	26.9R	1-5								30	32	26	21	27	136
Mrs. James Gott h	27.5L	1-5								17	22	48	26		113
Rose Linde	27.6L	1-8										30	31		61
Cranston Vineyards	27.9L	1-10								189	123	86	43		441
Nakagawa Brothers	27.97	1-10									6	13			19
Frankie G. Dick	28.59L	1-6						NO DIVERSION							
Nakagawa Brothers	28.6R	1-6	1							18	11	14	17	10	71
	28.71R	1-4									14	11	3	1	29
Dr. R. Burley & Dr. R. Van Gelder c	29.9R	1-8									49	32			81
Emil Bender	30.0L	1-10								4	1	5	2		12
--BUWELLA ROAD BRIDGE--	30.0														
A. Knoll	30.13L	1-8										5			5
V. W. Hoffman	30.15L	1-8								10	76	73	23		182
Hugh Davis	30.35R	1-6							1	68	29	27	14	12	151
J. J. Schmiedt	30.95L	1-7										71	41		112
Leon Rlschenmann	31.0L	1-8						1		45	39	23	22		130
V. W. Hoffman and Sons	31.45R	1-5								19		3			22
Sun-Bar Ranch d	31.7L	1-5						NO DIVERSION							
John Greffigna Estate	31.8R	1-7								22	7	24	11		64
Lawrence Jones	32.29L	1-14									30	48	60		138

TABLE B-6 (Continued)  
DIVERSIONS - MOKELUMNE RIVER  
October 1973 through September 1974

WATER USER	MILE AND BANK ABOVE NEW HOPE BRIDGE	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT. ACRE-FEET	
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.		
WOODBIDGE DAM TO CANANACHE DAM (Continued)																
North San Joaquin Water Conservation District	32.2L	2-14 1-16 1-18	18						33	48	1,381	1,697	1,663	1,656	929	7,425
G. R. Kallange	32.33R	1-6								77	8	11	21			117
William J. Lange	32.8R	1-1 1/2													1	1
Chester M. Locke	33.25L	1-10								40	46	153	176	106		521
Cranston Vineyards	33.45R 33.6R	1-8 1-8							NO DIVERSION	25	80	20	7	18		150
Mokelumne North Irrigation Assn., Inc.	33.69R	2-10 1-12	11						6	35	89	270	235	64		710
N. C. Locke	33.7L	1-12	6							63	200	152	227	67	1	716
T. and E. Schmierer	33.8R	1-4										9	21	1		31
Pritam Singh Dhaliwal	34.05R	1-4										9	8	1		18
Norman Knoll	34.1R 34.3R	1-4 1-4									7 20	26 23	35 21	42 20	7 4	117 91
--ELLIOTT ROAD BRIDGE--	34.35															
J. Hull, J. Graham, and T. Hess	34.5R	1-4							NO DIVERSION							
Dr. O. D. Jacobsen	34.55L	1-10										43	22	22	19	106
Donald Smith	34.55L	1-1 1/2									1	2	1	2	1	7
Agri-Management	34.6R	1-5							NO DIVERSION							
H. Bava, D. Panellis, and Dr. Barkett	34.75L	1-16	2		36					68	71	132	142	166	47	664
Agri-Management	35.14R	1-16	18							2	81	66	53	43	45	308
El Rio Vineyards	35.15R	1-6							NO DIVERSION							
A. Paredes, M. Gresham, and R. Tucker	35.2L	1-8									81	6	25	75	77	264
El Rio Vineyards	35.31R	2-10			41	73			47	68	97	215	150	63	18	772
Manuel Machado	35.4L	1-8									11	2	86	87		186
El Rio Vineyards	35.5R	1-8							NO DIVERSION							
R. D. Mehlhoff	35.7L 35.7L	1-6 1-8							4 6	20 1	79 1	94	101	61	36	395 8
I. H. Quessenberry	35.9L	1-7										26	44	39		109
Perdie F. Sievers	36.0L	1-6								4	32	34	53	35	17	175
El Rio Vineyards	36.2R	1-6							NO DIVERSION							
Ossie Parker	36.45L	1-12									165	2	68	94		329
J. R. Widerrich	36.75L 37.15L	1-5 1-10							NO DIVERSION			17	21	15	10	63
W. L. Moffat, et al	37.45R 37.65L	1-8 1-10									18	127 81	105 75	353 74	221	824 230
Maria Costa, et al	37.7R	1-12												16		16
Frank Lucchesi	38.0L 38.1L	1-6 1-8										17 35	2 7			19 42
R. and R. Sutter	38.3L	1-10								5	68	1	102		51	227
Ruben Goehring	38.5L	1-12									254		194	271		719
Clements Estate	39.0L	1-12	137	1						72	574	449	434	438	338	2,443
H. S. Magee Estate	39.25L	1-5										17	13	5		35
--OLD CLEMENTS BRIDGE--	39.3															
L. and T. Deluca	39.59L	1-4										13				13
Bill Wakehan	39.6L	1-6	3							3	9	9	9	13	22	68
J. N. Henry	39.9R	1-6							NO DIVERSION							
Dr. Donald L. Farrell	40.48L	1-2 1/2									19	20	26	25	13	103
Claude C. Wood Company	40.52L	1-6									37	43	39	62	23	204
B. Ostermann	40.53L	1-6									8	35	49	38	44	174
C. and A. Mehrten	40.72L	1-6										17	11			28
Harry Mason	40.83L	1-6										61	36	51	7	155
--HIGHWAY 88 BRIDGE--	41.00															
John Sutphin	41.14L	1-3										25	14	14		53
C. Fukuhara and R. Nakashima	41.14R	1-2 1-8									1 1	3 72	1 62	5 38	1 5	11 178
H. F. Lesage	41.23R	1-7 1/2								8	4	17	5	6		40



TABLE B-6 (Continued)  
DIVERSIONS - MOKELUMNE RIVER  
October 1973 through September 1974

WATER USER	MILE AND BANK ABOVE NEW HOPE BRIDGE	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT.-SEPT. ACRE-FEET	
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
WOODBIDGE DAM TO COMANCHE DAM (Continued)															
L. A. Rossoni Estate	41.40L	1-10						NO DIVERSION							
H. F. Lesage	41.50R	1-4						NO DIVERSION							
Clarence Jones	42.11R	1-8	3						10	20	26	15	29	23	126
F. E. Blincoe, Jr.	42.24L	1-2 1/2						NO DIVERSION							
George W. Beggs	42.64L	1-6	3							29	58	46	24		160
P. W. Olivera	42.66R	1-3									35	14	16	11	76
George W. Beggs	42.97L	1-4	1							11	5	11	9	7	44
	42.99L	1-8	9	26					30	68	40	37	65	18	293
--CAMANCHE RECORDER - MOKELUMNE RIVER BELOW CAMANCHE DAM--	43.00														
P. W. Olivera	43.15R	1-4									26	13	16	10	65
--CAMANCHE DAM--															
MOKELUMNE RIVER, WOODBRIDGE DAM TO CAMANCHE DAM															
Total diversions			7,272	27	77	73	0	2,101	4,077	20,529	24,637	26,475	25,585	14,898	125,746
Average cubic feet per second			118	1	1	1	0	34	69	334	414	430	416	250	174

Note: All diversion data were furnished by the East Bay Municipal Utility District.

- a Formerly listed as Verne Sperling
- b Formerly listed as Irene C. Burton et al
- c Formerly listed as W. E. Mehlhoff
- d Formerly listed as Ross D. Soucie
- e Added new 10" pump
- f Formerly listed as R. Simmons and D. D. Jacobson
- g Formerly listed as Grizzly Hill Ranch
- h Formerly listed as J. R. Wiederrich et al
- i Formerly listed as Cesterio Costa
- j Formerly listed as N & C Locke

TABLE B-7  
DELIVERIES FROM FOLSOM AND HUMBUS RESERVOIRS  
October 1973 through September 1974

Water User	Monthly Diversion in Acre-Feet												Total
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
<u>Cordova Water Service and City of Folsom</u> a													
Total acre-feet	1,730	1,168	2,000	1,333	1,013	1,316	1,171	1,613	2,061	2,092	2,010	1,779	19,286
Average cubic feet per second	28	20	33	22	18	21	20	26	35	34	33	30	27
Monthly quantities in percent of seasonal	9.0	6.1	10.4	6.9	5.2	6.8	6.1	8.4	10.7	10.8	10.4	9.2	
<u>San Juan Suburban Water District</u> a													
Total acre-feet	2,160	1,323	1,186	1,182	1,086	1,113	2,132	4,319	5,505	6,247	5,240	4,438	35,931
Average cubic feet per second	35	22	19	19	20	18	36	70	93	102	85	75	50
Monthly quantities in percent of seasonal	6.0	3.7	3.3	3.3	3.0	3.1	5.9	12.0	15.3	17.4	14.6	12.4	
<u>State of California</u> a													
Total acre-feet	82	63	68	67	60	65	72	90	96	112	110	79	964
Average cubic feet per second	1	1	1	1	1	1	1	1	2	2	2	1	1
Monthly quantities in percent of seasonal	8.5	6.5	7.1	7.0	6.2	6.7	7.5	9.3	10.0	11.6	11.4	8.2	

TABLE B-8  
IMPORTATIONS INTO NORTHEASTERN CALIFORNIA  
October 1973 through September 1974

Water User	Monthly Diversion in Acre-Feet												Total
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
<u>Clear Creek Powerplant</u> a													
Total acre-feet	27,490	42,770	157,790	145,890	179,030	191,450	160,550	216,060	193,860	187,630	161,900	134,720	1,799,140
Average cubic feet per second	447	719	2,566	2,373	3,224	3,114	2,698	3,514	3,258	3,051	2,633	2,264	2,485
Monthly quantities in percent of seasonal	1.5	2.4	8.8	8.1	10.0	10.6	8.9	12.0	10.8	10.4	9.0	7.5	

TABLE B-9  
EXPORTATIONS FROM NORTHEASTERN CALIFORNIA  
October 1973 through September 1974

Water User	Monthly Diversion in Acre-Feet												Total
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
<u>East Bay Municipal Utility District</u> b													
<u>MOSELUNE RIVER</u>													
Total acre-feet	18,700	15,881	9,851	9,138	10,743	11,525	12,332	17,991	20,803	22,101	22,092	19,902	191,059
Average cubic feet per second	304	267	160	149	193	187	207	293	350	359	359	334	264
Monthly quantities in percent of seasonal	9.8	8.3	5.2	4.8	5.6	6.0	6.4	9.4	10.9	11.6	11.6	10.4	
<u>Putah South Canal</u> a													
<u>PUTAH CREEK</u>													
Total acre-feet	7,695	1,989	1,946	6,200	9,259	2,053	9,935	31,754	36,881	37,611	36,248	23,459	205,030
Average cubic feet per second	125	33	32	101	167	33	167	516	620	612	590	394	283
Monthly quantities in percent of seasonal	3.8	1.0	0.9	3.0	4.5	1.0	4.9	15.5	18.0	18.3	17.7	11.4	
<u>City of Vallejo</u> c													
<u>CACHE SLOUGH</u>													
Total acre-feet	1,415	1,066	783	792	745	812	953	1,288	1,480	1,348	1,339	1,039	13,060
Average cubic feet per second	23	18	13	13	13	13	16	21	25	22	22	17	18
Monthly quantities in percent of seasonal	10.8	8.2	6.0	6.1	5.7	6.2	7.3	9.9	11.3	10.3	10.2	8.0	
<u>Contra Costa Canal</u> a													
<u>OLD RIVER</u>													
Total acre-feet	6,465	5,012	3,426	3,546	3,207	4,032	4,639	7,039	11,183	12,179	11,836	6,859	79,423
Average cubic feet per second	105	84	56	58	58	66	78	114	188	198	192	115	110
Monthly quantities in percent of seasonal	8.1	6.3	4.3	4.5	4.1	5.1	5.8	8.9	14.1	15.3	14.9	8.6	
<u>Delta-Mendocino Canal</u> a													
Total acre-feet	205,685	178,063	95,351	75,823	192,893	260,572	152,529	269,288	261,528	276,534	277,914	197,569	2,443,749
Average cubic feet per second	3,345	2,993	1,551	1,223	3,473	4,238	2,363	4,379	4,395	4,497	4,520	3,320	3,376
Monthly quantities in percent of seasonal	8.4	7.3	3.9	3.1	7.9	10.7	6.2	11.0	10.7	11.3	11.4	8.1	
<u>California Aqueduct</u>													
Total acre-feet	151,403	105,858	109,092	44,480	110,652	116,664	90,266	158,441	262,445	361,355	283,352	91,071	1,885,079
Average cubic feet per second	2,462	1,779	1,774	723	1,992	1,897	1,517	2,577	4,411	5,877	4,608	1,531	2,604
Monthly quantities in percent of seasonal	8.0	5.6	5.8	2.4	5.9	6.2	4.8	8.4	13.9	19.2	15.0	4.8	

a Data furnished by U. S. Bureau of Reclamation.

b Data furnished by East Bay Municipal Utility District.

c Data furnished by City of Vallejo.

d Amounts are total diversion into the canal; only an unknown portion of this is exported from northeastern California.

TABLE B-10

MAXIMUM AND MINIMUM GAGE HEIGHTS

This table contains the historical maximum and the annual maximum and minimum gage heights for selected stations formerly reported in the "Daily Mean Heights" table.

Discharges corresponding to the reported maximum gage heights are included in the table. Due to possible changes in gage height-discharge relationships, the discharges may not be record or annual maximums. Discharges are rounded off in accordance with the procedures described in Table B-5, "Daily Mean Discharge".

Historic data include the location, period of record, gage height datum, and a brief description of each station.

TABLE B-10 (Continued)  
MAXIMUM AND MINIMUM GAGE HEIGHTS

Station Name: <u>SACRAMENTO RIVER AT KESWICK</u>				Station Number A21010		Water Year: 1974	
Location:	LAT 40 36 04	LONG 122 26 36	NW Sec 28 T32N R5W MDB&M		Period of Record: 1938 to DATE		
Historic:	Maximum Gage Height: *47.20	Discharge: *186,000 cfs	Date: 2-28-40	Time:	Zero of Gage: 495.01 USCGS		
	32.20	78,900 cfs	1-24-70		479.81 USCGS		
Water Year:	Maximum Gage Height: 31.92	Discharge: 81,400 cfs	Date: 4-1-74	Time: 0215	Zero of Gage: 479.81 USCGS		
	Minimum Gage Height:		Date:	Time:			
* - Prior to regulation by Shasta Lake							
Station located 0.8 mile below Keswick Dam, 1.6 miles below Keswick. Flow regulated by Shasta Lake. Records furnished by USGS. Drainage area, excluding Goose Lake Basin, is approximately 6,468 square miles.							
Station Name: <u>SACRAMENTO RIVER ABOVE BEND BRIDGE NEAR RED BLUFF</u>				Station Number: A02788		Water Year: 1974	
Location:	LAT 40 17 19	LONG 122 11 08	NE Sec 15 T28N R3W MDB&M		Period of Record: 1967 to DATE		
Historic:	Maximum Gage Height: 36.60	Discharge: 157,000 cfs	Date: 1-24-70	Time:	Zero of Gage: 0.00 Local		
Water Year:	Maximum Gage Height: 32.47	Discharge: 133,000 cfs	Date: 1-16-74	Time: 2300	Zero of Gage: 0.00 Local		
	Minimum Gage Height: 2.66		Date:	Time:			
Station located 2.7 miles upstream from Bend Bridge, 8.1 miles NE of Red Bluff. Records furnished by USGS. Drainage area is 8,900 square miles.							
Station Name: <u>SACRAMENTO RIVER AT VINA BRIDGE</u>				Station Number: A02700		Water Year: 1974	
Location:	LAT 39 54 34	LONG 122 05 31	NE Sec 28 T24N R2W MDB&M		Period of Record: 1945 to DATE		
Historic:	Maximum Gage Height: 91.48	Discharge: 171,000 cfs	Date: 1-24-70	Time: 0530	Zero of Gage: 100.00 USED		
Water Year:	Maximum Gage Height: 90.36	Discharge: 159,000 cfs	Date: 1-16-74	Time: 2100	Zero of Gage: 97.15 USCGS		
	Minimum Gage Height: 66.35	6,040 cfs	Date: 11-6-73	Time: 0345			
Station located 250 feet above Vina-Corning Highway Bridge, 2.6 miles SW of Vina. The maximum discharge of record is for the main river channel and does not include water by-passing the station on the left bank. Flow regulated by Shasta Lake since December 30, 1943. Approximately 190,000 acre-feet diverted from the river between Keswick and Vina in addition to diversions from the tributaries. Transbasin diversions from the Trinity River to Whiskeytown Reservoir via Judge Francis Carr Powerplant began in April 1963. Drainage area, excluding Goose Lake Basin, is approximately 10,930 square miles.							
Station Name: <u>SACRAMENTO RIVER AT HAMILTON CITY</u>				Station Number: A02630		Water Year: 1974	
Location:	LAT 39 45 07	LONG 121 59 43	NE Sec 20 T22N R1W MDB&M		Period of Record: 1927 to DATE		
Historic:	Maximum Gage Height: *22.60	Discharge: 350,000 E cfs	Date: 2-28-40	Time:	Zero of Gage: 127.9 USED		
	49.65	158,000 cfs	1-17-74	1415	100.0 USED		
Water Year:	Maximum Gage Height: 49.65	Discharge: 158,000 cfs	Date: 1-17-74	Time: 1415	Zero of Gage: 96.5 USCGS		
	Minimum Gage Height: 28.09	7,110 cfs	Date: 10-20-73	Time: 1000			
* - Prior to regulation by Shasta Lake							
Station located at Gianella Bridge, State Highway 32, 1.0 mile NE of Hamilton City. The maximum discharges of record since February 1940 are for the main river channel and do not include water by-passing the station on the left bank. Flow regulated by Shasta Lake since December 30, 1943. Approximately 950,000 acre-feet diverted from the river between Keswick and Hamilton City in addition to diversions from the tributaries. Transbasin diversions from the Trinity River to Whiskeytown Reservoir via Judge Francis Carr Powerplant began in April 1963. Drainage area, excluding Goose Lake Basin, is approximately 11,060 square miles.							
Station Name: <u>SACRAMENTO RIVER AT ORD FERRY</u>				Station Number: A02570		Water Year: 1974	
Location:	LAT 39 37 39	LONG 121 59 28	SE Sec 32 T21N R1W MDB&M		Period of Record: #1921 to DATE		
Historic:	Maximum Gage Height: *121.70	Discharge: 370,000 cfs	Date: 2-28-40	Time:	Zero of Gage: 0.00 USED		
	69.8	138,000 cfs	1-24-70				
Water Year:	Maximum Gage Height: 68.14	Discharge: 120,000 cfs	Date: 1-17-74	Time: 0700	Zero of Gage: 50.00 USED		
	Minimum Gage Height: 46.43	7,160 cfs	Date: 10-20-73	Time: 1315			
# - 1921 to 1941 Flood season only							
* - Prior to regulation by Shasta Lake							
Station located 0.1 mile below Ord Ferry. Records of flows in excess of 70,000 cubic feet per second are not reliable due to an undetermined amount of water by-passing the station via Butte Basin. Flow regulated by Shasta Lake since December 30, 1943. Approximately 980,000 acre-feet diverted from the river between Keswick and Ord Ferry in addition to diversions from the tributaries. Transbasin diversions from the Trinity River to Whiskeytown Reservoir via Judge Francis Carr Powerplant began in April 1963. Drainage area, excluding Goose Lake Basin, is approximately 12,480 square miles.							
Station Name: <u>SACRAMENTO RIVER AT BUTTE CITY</u>				Station Number: A02500		Water Year: 1974	
Location:	LAT 39 27 28	LONG 121 59 35	NE Sec 32 T19N R1W MDB&M		Period of Record: 1929 to DATE		
Historic:	Maximum Gage Height: 96.87	Discharge: 170,000 cfs	Date: 2-7-42	Time:	Zero of Gage: 0.00 USED		
Water Year:	Maximum Gage Height: 94.54	Discharge: 136,000 cfs	Date: 1-18-74	Time: 0330	Zero of Gage: 0.00 USED		
	Minimum Gage Height: 70.51		Date: 10-20-73	Time: 1300			
Station located at highway bridge, 0.5 mile S of Butte City. Maximum discharge of record listed is for period 1940 to date. Records furnished by USGS.							
* - Prior to regulation by Shasta Lake							

TABLE B-10 (Continued)  
MAXIMUM AND MINIMUM GAGE HEIGHTS

Station Name: <u>SACRAMENTO RIVER AT COLUSA</u>				Station Number: A02420		Water Year: 1974	
Location:	LAT 39 12 51	LONG 121 59 57	NW Sec 29 T16N R1W MDB&M	Period of Record: 1919 to DATE			
Historic:	Maximum Gage Height: *69.20	Discharge: 49,000 cfs	Date: 2-8-42	Time:	Zero of Gage: 0.00 USED		
	67.68	48,600 cfs	1-18-74		-3.0 USCGS		
Water Year:	Maximum Gage Height: 67.68	Discharge: 48,600 cfs	Date: 1-18-74	Time: 1330	Zero of Gage: -3.0 USCGS		
	Minimum Gage Height: 42.08		Date: 10-21-73	Time: 0930			

\* - Prior to regulation by Shasta Lake

Station located just below bridge at Colusa. Maximum discharge of record listed is for period 1938 to date. Records furnished by USGS.  
Drainage area 12,096 square miles.

Station Name: <u>CHEROKEE CANAL NEAR RICHVALE</u>				Station Number: A02984		Water Year: 1974	
Location:	LAT 39 27 53	LONG 121 44 37	NW Sec 34 T19N R2E MDB&M	Period of Record: 1960 to DATE			
Historic:	Maximum Gage Height: 13.80	Discharge: 15,200 E cfs	Date: 10-13-62	Time:	Zero of Gage: 88.20 USCGS		
Water Year:	Maximum Gage Height: 10.48	Discharge: 3,810 cfs	Date: 1-15-74	Time: 0630	Zero of Gage: 88.20 USCGS		
	Minimum Gage Height: 2.44	1.1 cfs	Date: 9-12-74	Time: 1700			

Station located at Butte City Road Bridge, 2.1 miles S of Richvale. Backwater from Cherokee Dam weir, 1.05 miles below station, at times affects the stage-discharge relationship. Weir has 13 bays and is operated by the Richvale Irrigation District.

Station Name: <u>SACRAMENTO RIVER BELOW WILKINS SLOUGH</u>				Station Number: A02280		Water Year: 1974	
Location:	LAT 39 00 36	LONG 121 49 25	NE Sec 2 T13N R1E MDB&M	Period of Record: 1931 to DATE			
Historic:	Maximum Gage Height: *51.41	Discharge: 28,900 cfs	Date: 2-27-48	Time:	Zero of Gage: 0.00 USED		
	50.72	29,300 cfs	1-26-70		-3.00 USCGS		
Water Year:	Maximum Gage Height: 50.08	Discharge: 29,400 cfs	Date: 1-19-74	Time: 1530	Zero of Gage: -3.00 USCGS		
	Minimum Gage Height: 29.54		Date: 10-22-73	Time: 2130			

\* - Prior to regulation by Shasta Lake

Station located 0.3 mile below Wilkins Slough Pumping Plant of Reclamation District 108, 1.3 miles below Tisdale Weir, 6 miles SE of Grimes. Maximum discharge of record listed is for period 1938 to date. Records furnished by USGS.

Station Name: <u>COLUSA BASIN DRAIN AT HIGHWAY 20</u>				Station Number: A02976		Water Year: 1974	
Location:	LAT 39 11 44	LONG 122 03 34	NE Sec 34 T16N R2W MDB&M	Period of Record: 1924 to DATE			
Historic:	Maximum Gage Height: 51.93	Discharge: 25,400 cfs	Date: 2-21-58	Time:	Zero of Gage: 0.00 USED		
Water Year:	Maximum Gage Height: 47.20	Discharge: 2,160 cfs	Date: 1-17-74	Time: 0800	Zero of Gage: 0.00 USED		
	Minimum Gage Height: 37.73	59.0 cfs	Date: 4-16-74	Time: 1030			

8 - 1924 to 1940 Irrigation season only

Station located at State Highway 20 Bridge, 3.0 miles W of Colusa.

Station Name: <u>COLUSA BASIN DRAIN AT KNIGHTS LANDING</u>				Station Number: A02945		Water Year: 1974	
Location:	LAT 38 47 58	LONG 121 43 27	SW Sec 14 T11N R2E MDB&M	Period of Record: 1924 to DATE			
Historic:	Maximum Gage Height: 36.8	Discharge:	Date: 2-10-42	Time:	Zero of Gage: 0.00 USED		
Water Year:	Maximum Gage Height: NR	Discharge: NA	Date:	Time:	Zero of Gage: 0.00 USED		
	Minimum Gage Height: NR	Discharge: NA	Date:	Time:			

8 - 1924 to 1940 Irrigation season only

Station located at Knights Landing Outfall Gates, 0.3 mile W of Knights Landing. Tributary to Sacramento River. Flow regulated by outfall gates. An undetermined amount of flow is diverted to Yolo Bypass via Ridge Cut at Knights Landing. For total flow to Sacramento River, combine with the flows of Reclamation District 787 to Colusa Basin Drain.

Station Name: <u>SACRAMENTO RIVER AT KNIGHTS LANDING</u>				Station Number: A02200		Water Year: 1974	
Location:	LAT 38 48 11	LONG 121 42 55	NE Sec 14 T11N R2E MDB&M	Period of Record: 1919 to DATE			
Historic:	Maximum Gage Height: 41.83	Discharge:	Date: 2-8-42	Time:	Zero of Gage: -3.02 USCGS		
Water Year:	Maximum Gage Height: 39.93	Discharge: 29,600 cfs	Date: 1-20-74	Time: 0530	Zero of Gage: -3.02 USCGS		
	Minimum Gage Height: 17.90		Date: 10-22-73	Time: 2400			

Station located just above the Southern Pacific Railroad Bridge, 13.1 miles above Feather River immediately NE of Knights Landing. Station affected by backwater from Feather River and Sutter Bypass during periods of high flow. Maximum discharge of record listed is for period 1940 to date. Records furnished by USGS. Drainage area 14,541 square miles.

TABLE B-10 (Continued)  
MAXIMUM AND MINIMUM GAGE HEIGHTS

Station Name: <u>BUTTE SLOUGH NEAR MERIDIAN</u>			Station Number: A02972		Water Year: 1974	
Location:	LAT 39 10 20	LONG 121 54 02	NE Sec 7 T15N R1E MDB&M		Period of Record: #1934 to DATE	
Historic:	Maximum Gage Height: 61.64	Discharge: 150,000 cfs	Date: 1-26-70	Time: 0000	Zero of Gage: 0.00 USED	
Water Year:	Maximum Gage Height: 60.14	Discharge: 114,000 cfs	Date: 1-19-74	Time: 1030	Zero of Gage: 0.00 USED	
	Minimum Gage Height: 39.46	90.0 cfs	Date: 10-21-73	Time: 0445		
# - 1934 to 1937 Flood season only						
Station located on right bank 0.3 mile upstream from Farman Road, 2.0 miles NE of Meridian. Tributary to Sutter Bypass. Flow affected by gate operation. Flow during summer months is made up almost entirely of return water from land irrigated by Feather River diversions. During flood periods, Sacramento River water enters Butte Basin above Butte City from bank spill and spill over Moulton and Colusa Weirs.						
Station Name: <u>WADSWORTH CANAL NEAR SUTTER</u>			Station Number: A05929		Water Year: 1974	
Location:	LAT 39 09 12	LONG 121 44 00	NE Sec 15 T15N R2E BDB&M		Period of Record: 1961 to DATE	
Historic:	Maximum Gage Height: 53.62	Discharge: NA	Date: 1-26-70	Time:	Zero of Gage: 0.00 USED	
Water Year:	Maximum Gage Height: 51.87	Discharge: NA	Date: 1-19-74	Time: 1330	Zero of Gage: 0.00 USED	
	Minimum Gage Height: NR		Date:	Time:		
Station located at South Butte Road Bridge, 0.9 mile E of Sutter. Tributary to Sutter Bypass. This station and one 2.2 miles downstream are used to determine the slope for rating of canal. Records for January 1939 to March 1961 previously published as Wadsworth Canal at Butte House Road.						
Station Name: <u>YUBA RIVER NEAR MARYSVILLE</u>			Station Number: A06150		Water Year: 1974	
Location:	LAT 39 10 33	LONG 121 31 26			Period of Record: 1940 to DATE	
Historic:	Maximum Gage Height: 90.15	Discharge: 180,000 cfs	Date: 12-22-64	Time:	Zero of Gage: -2.95 USCGS	
Water Year:	Maximum Gage Height: NR	Discharge: 49,300 cfs	Date: 4-1-74	Time: Unknown	Zero of Gage: -2.95 USCGS	
	Minimum Gage Height: NR		Date:	Time:		
Station located 5 miles below Dry Creek, 4.2 miles northeast of Marysville. Maximum discharge listed for period 1943 to date. Records furnished by U. S. Geological Survey. Drainage area is 1,339 square miles.						
Station Name: <u>BEAR RIVER NEAR WHEATLAND</u>			Station Number: A06550		Water Year: 1974	
Location:	LAT 39 00 01	LONG 121 24 21	SW Sec 3 T13N R5E MDB&M		Period of Record: 1928 to DATE	
Historic:	Maximum Gage Height: 19.30	Discharge: 33,000 cfs	Date: 12-22-55	Time:	Zero of Gage: 78.92 USCGS	
Water Year:	Maximum Gage Height: 15.18	Discharge: 13,600 cfs	Date: 3-2-74	Time: 0800	Zero of Gage: 71.92 USCGS	
	Minimum Gage Height: 3.89		Date: 10-19-73	Time: 0030		
Station located 100 feet below U. S. Highway 99E bridge, 1 mile southeast of Wheatland. Tributary to Feather River. Flow regulated by Camp Far West Reservoir. Records furnished by U. S. Geological Survey. Drainage area is 292 square miles.						
Station Name: <u>AMERICAN RIVER AT FAIR OAKS</u>			Station Number: A07175		Water Year: 1974	
Location:	LAT 38 38 08	LONG 121 13 36	NE Sec 17 T9N R7E MDB&M		Period of Record: 1904 to DATE	
Historic:	Maximum Gage Height: 31.85	Discharge: 180,000 cfs	Date: 11-21-50	Time:	Zero of Gage: 64.79 USCGS	
Water Year:	Maximum Gage Height: 14.46	Discharge: 27,600 cfs	Date: 1-17-74	Time: 2000	Zero of Gage: 71.53 USCGS	
	Minimum Gage Height: 6.29		Date: 9-04-74	Time: 0830		
Station located 2,100 feet below Nimbus Dam, 2.4 miles east of Fair Oaks. Flow regulated by Folsom Lake. Maximum discharge listed at site and datum then in use. Records furnished by U. S. Geological Survey. Drainage area is 1,888 square miles.						
Station Name: <u>CACHE CREEK AT YOLO</u>			Station Number A08125		Water Year: 1974	
Location:	LAT 38 43 31	LONG 121 48 22			Period of Record: 1903 to DATE	
Historic:	Maximum Gage Height: 85.35	Discharge: 41,400 cfs	Date: 2-25-58	Time:	Zero of Gage: 52.27 USCGS	
Water Year:	Maximum Gage Height: 76.53	Discharge: 25,100 cfs	Date: 1-17-74	Time: 0230	Zero of Gage: 0.00 USCGS	
	Minimum Gage Height: NR		Date:	Time:		
Station located 800 feet above U. S. Highway 99W bridge, 0.5 mile south of Yolo. Tributary to Yolo Bypass. Maximum discharge listed at present datum. Records furnished by U. S. Geological Survey. Drainage area is 1,139 square miles.						

TABLE B-10 (CONTINUED)  
MAXIMUM AND MINIMUM GAGE HEIGHTS

<u>Station Name: YOLO BYPASS NEAR WOODLAND</u>				Station Number: A02935		Water Year: 1974	
Location:	LAT 38 40 40	LONG 121 38 35	SE Sec 28 T10N R3E MDB&M			Period of Record: 1939 to DATE	
Historic:	Maximum Gage Height: 32.00	Discharge: 272,000 cfs	Date: 2-8-42	Time:	Zero of Gage: -3.41 USCGS		
Water Year:	Maximum Gage Height: 29.35	Discharge: 160,000 cfs	Date: 1-20-74	Time: 1200	Zero of Gage: -3.41 USCGS		
	Minimum Gage Height: NR		Date:	Time:			

Station located just above the Sacramento-Woodland Railroad Bridge, 6 miles above the Sacramento Bypass, 7 miles below Fremont Weir, 7 miles east of Woodland. Supplementary water stage recorder, located 7 miles downstream, used for computations during periods of low flow. Stage-discharge relationship at supplementary recorder location at times affected by tidal action. Records furnished by U. S. Geological Survey.

<u>Station Name: PUTAH CREEK NEAR WINTERS</u>				Station Number: A91250		Water Year: 1974	
Location:	LAT 38 30 55	LONG 122 04 51	NE Sec 28 T8N R2W MDB&M			Period of Record: 1930 to DATE	
Historic:	Maximum Gage Height: 30.50	Discharge: 81,000 cfs	Date: 2-27-40	Time:	Zero of Gage: 160.75 USCGS		
Water Year:	Maximum Gage Height: 15.48	Discharge: 7,700 cfs	Date: 3-30-74	Time: 1600	Zero of Gage: 160.75 USCGS		
	Minimum Gage Height: NR		Date:	Time:			

Station located 1.3 miles below Monticello Dam, 6 miles west of Winters. Flow regulated by Lake Berryessa. Maximum discharge listed at present datum. Records furnished by U. S. Geological Survey. Drainage area is 574 square miles.

<u>Station Name: MOKELUMNE RIVER AT WOODBRIDGE</u>				Station Number: B02105		Water Year: 1974	
Location:	LAT 38 09 31	LONG 121 18 09	NE Sec 34 T4N R6E MDB&M			Period of Record: 1924 to DATE	
Historic:	Maximum Gage Height: 29.58	Discharge: 27,000 cfs	Date: 11-22-50	Time:	Zero of Gage: 14.90 USCGS		
Water Year:	Maximum Gage Height: 19.21	Discharge: 3,270 cfs	Date: 11-20-73	Time: 1730	Zero of Gage: 14.90 USCGS		
	Minimum Gage Height: 5.02		Date: 2-28-74	Time: 0200			

Station located 0.3 mile below county highway bridge, 0.4 mile below dam and canal intake of Woodbridge Irrigation District. Flow regulated by reservoirs and powerplants. Records furnished by U. S. Geological Survey. Drainage area is 661 square miles.

<u>Station Name: COSUMNES RIVER AT MICHIGAN BAR</u>				Station Number: B11150		Water Year: 1974	
Location:	LAT 38 30 01	LONG 121 02 39	SE Sec 36 T8N R8E MDB&M			Period of Record: 1907 to DATE	
Historic:	Maximum Gage Height: 14.59	Discharge: 42,000 cfs	Date: 12-23-55	Time:	Zero of Gage: 168.09 USCGS		
Water Year:	Maximum Gage Height: 8.07	Discharge: 8,890 cfs	Date: 3-2-74	Time: 0700	Zero of Gage: 168.09 USCGS		
	Minimum Gage Height: 2.27		Date: 9-28-74	Time: 1830			

Station located on highway bridge, 5.5 miles southwest of Latrobe. Flow partly regulated by Jenkinson Lake. Records furnished by the U. S. Geological Survey. Drainage area is 536 square miles.

<u>Station Name: COSUMNES RIVER AT MCCONNELL</u>				Station Number: B01125		Water Year: 1974	
Location:	LAT 38 21 29	LONG 121 20 34	SW Sec 20 T6N R6E MDB&M			Period of Record: 1941 to DATE	
Historic:	Maximum Gage Height: 46.26	Discharge: 54,000 cfs	Date: 12-23-55	Time:	Zero of Gage: -3.34 USCGS		
Water Year:	Maximum Gage Height: 43.52	Discharge: 9,650 cfs	Date: 3-3-74	Time: 0300	Zero of Gage: -3.34 USCGS		
	Minimum Gage Height: NR		Date:	Time:			

Station located on U. S. Highway 99 bridge, 0.2 mile south of McConnell, 7.0 miles north of Galt. Maximum discharge of record listed is for period 1943 to date. Records furnished by U. S. Geological Survey. Drainage area is 724 square miles.

**TABLE B-11 (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A02445	SACRAMENTO RIVER AT MOULTON WEIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1							81.63						1
2			79.09				81.49						2
3			77.41				81.59						3
4							80.97						4
5							79.57						5
6							77.29						6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16				78.82									16
17				81.53									17
18				82.34									18
19		77.46		81.43									19
20				81.12									20
21				80.48									21
22				79.93									22
23				79.65									23
24				79.26									24
25				78.99									25
26				78.81									26
27				78.42									27
28				77.83									28
29				77.41									29
30			77.73	77.04		80.58							30
31			77.74										31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E — ESTIMATED  
 NR — NO RECORD  
 NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-18-74	0745	82.54									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
39 20 18	122 01 18	SE12 17N 2W		83.8	2/7/42	JAN 40-DATE #	JAN 35-DATE #	1935		0.00 USED

Station located west of south end of weir, 4.6 mi. S of Princeton. Gage heights below weir crest (elevation 76.75 ft.) are not tabulated.

# - Flood season only.



**TABLE B-11 (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A02450	SACRAMENTO RIVER OPPOSITE MOULTON WEIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	58.10	57.13	75.45	75.61	74.70	67.76	82.28	61.25	61.14	59.26	58.38	59.23	1
2	58.09	57.12	79.44	74.19	74.82	72.46	82.12	60.31	61.02	59.27	58.35	59.26	2
3	58.13	57.12	77.40	73.28	73.34	70.52	82.23	60.03	60.96	59.18	58.34	59.33	3
4	58.07	57.13	74.62	71.92	72.19	69.22	81.51	59.56	60.96	58.95	58.36	59.35	4
5	58.05	57.16	74.93	70.27	71.59	66.61	79.91	59.26	60.69	58.84	58.39	59.29	5
6	57.77	57.27	74.61	70.09	70.54	65.49	77.12	59.12	60.55	58.83	58.39	59.34	6
7	57.65	57.71	74.00	70.22	69.31	66.38	75.82	61.57	60.49	58.92	58.43	59.44	7
8	58.04	59.48	73.66	70.11	68.09	73.66	74.22	62.75	60.42	59.15	58.54	59.48	8
9	58.07	59.96	72.68	69.27	67.38	71.49	73.58	62.84	60.31	59.38	58.69	59.54	9
10	57.91	60.88	70.80	67.93	65.81	69.26	73.56	62.99	60.19	59.78	58.89	59.58	10
11	57.83	68.00	69.60	67.17	64.03	68.10	73.23	62.96	60.11	59.67	58.97	59.55	11
12	57.80	74.79	69.95	67.31	63.02	69.01	72.83	62.90	60.06	59.40	59.08	59.23	12
13	57.77	76.50	70.00	69.29	68.49	68.49	72.56	62.88	59.90	59.07	59.07	59.08	13
14	57.73	74.27	70.32	70.70	65.98	66.70	72.36	62.67	59.82	58.79	59.06	59.22	14
15	57.74	72.09	69.50	73.71	65.91	65.47	71.78	61.45	59.79	58.94	59.07	59.30	15
16	57.40	71.95	68.65	79.14	65.84	69.02	70.29	61.16	59.79	58.84	59.02	59.37	16
17	57.00	74.21	68.26	82.21	65.55	71.34	69.73	61.20	59.82	58.79	59.04	59.42	17
18	56.88	76.27	68.86	83.07	65.01	71.67	69.49	61.26	59.80	58.72	59.04	58.98	18
19	56.82	77.47	68.85	82.01	64.93	71.51	69.25	61.42	59.77	58.72	59.10	58.51	19
20	56.80	76.27	68.34	81.65	67.90	71.30	67.10	61.33	59.81	58.65	59.09	58.03	20
21	56.79	NR	68.45	80.93	66.20	71.04	63.99	61.11	59.89	58.62	59.10	57.79	21
22	56.91	NR	74.22	80.31	65.34	70.84	62.14	60.64	59.74	58.65	59.10	57.75	22
23	57.27	NR	75.43	79.99	65.04	70.23	61.45	60.49	59.66	58.61	59.10	57.70	23
24	57.78	NR	73.02	79.56	64.61	67.47	61.19	60.42	59.65	58.55	59.09	57.68	24
25	57.52	NR	72.09	79.25	64.12	64.43	61.64	60.53	59.55	58.50	59.11	57.58	25
26	57.23	NR	71.43	79.05	63.45	63.15	61.59	60.78	59.45	58.45	59.11	57.67	26
27	57.18	NR	71.05	78.58	62.83	63.16	61.22	60.93	59.39	58.44	59.10	57.67	27
28	57.22	71.33	72.67	77.86	62.16	64.23	62.29	60.99	59.37	58.46	59.10	57.61	28
29	57.18	70.75	75.13	77.32		65.90	63.58	61.06	59.30	58.44	59.06	57.62	29
30	57.13	70.98	77.59	76.84		75.94	63.45	61.29	59.29	58.41	59.14	57.67	30
31	57.09		77.67	76.15		81.09		61.23		58.41	59.20		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-18-74	0630	83.30									

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 20 13	122 01 50	SW12 17N 2W		85.5 83.3	2/ 7/42 1/18/74	MAR 54-DATE 8	OCT 22-MAY 40 # JUL 40-JUL 41 NOV 41-JUL 43 # OCT 43-DATE			0.00	USED

Station located immediately W of weir, 4.8 mi. S of Princeton.

8 - Irrigation season only.  
# - Flood season only.

**TABLE B-11 (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A02430	SACRAMENTO RIVER AT COLUSA WEIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			64.78	65.29	64.48		67.62						1
2			67.20	64.53	64.51	63.28	67.56						2
3			66.51	64.04	63.87	62.63	67.63						3
4			64.91	63.38	63.24	62.15	67.40						4
5			64.86	62.52	62.93		66.78						5
6			64.82	62.35	62.54		65.46						6
7			64.57	62.43	62.01		64.77						7
8			64.40	62.39		63.52	64.07						8
9			63.96	62.06		63.15	63.74						9
10			62.97			62.07	63.73						10
11			62.28				63.59						11
12		64.45	62.32				63.40						12
13		66.02	62.44			61.83	63.27						13
14		65.02	62.55	62.56			63.18						14
15		63.71	62.25	63.77			62.98						15
16		63.43	61.83	66.50			62.43						16
17		64.56		68.04		62.78	62.18						17
18		65.70		68.52		62.96	62.04						18
19		66.36	61.87	68.20		62.90	61.93						19
20		66.02		67.96		62.81							20
21		62.96		67.60		62.71							21
22		62.20	64.03	67.22		62.62							22
23		64.22	65.37	67.03		62.43							23
24		64.64	64.13	66.83		61.81							24
25		64.47	63.55	66.67									25
26		64.36	63.15	66.55									26
27		64.09	62.91	66.36									27
28		63.14	63.59	65.99									28
29		62.70	64.85	65.73									29
30		62.75	66.05	65.47		64.14							30
31			66.38	65.19		67.04							31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-18-74	1015	68.58									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF3	GAGE HT.	DATE			FROM	TO		
39 14 12	121 59 38	SE17 16N 1W		70.6	3/1/40	JAN 40-DATE #	JAN 35-DATE #	1935		0.00	USED
Station located at north end of weir, 2.0 mi. N of Colusa. Gage heights below weir crest (elevation 61.80 ft.) are not tabulated.											
# - Flood season only.											

**TABLE B-11 (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A02301	SACRAMENTO RIVER AT TISDALE WEIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			48.26	48.56	48.30		49.28						1
2			49.19	48.35	48.28	47.50	49.47						2
3			49.28	48.24	48.17	47.69	49.57						3
4			48.61	48.11	48.00	47.54	49.55						4
5			48.40	47.89	47.90	46.77	49.29						5
6			48.41	47.78	47.80	46.00	48.71						6
7			48.33	47.80	47.61	45.65	48.36						7
8			48.28	47.77	47.30	47.40	48.17						8
9			48.19	47.69	46.94	47.82	48.05						9
10			47.97	47.40	46.45	47.49	48.03						10
11			47.74	46.99		47.13	47.99						11
12	47.52		47.69	46.84		47.05	47.92						12
13	48.54		47.75	47.22		47.27	47.86						13
14	48.53		47.75	47.69		46.74	47.83						14
15	48.20		47.69	47.95	45.69	46.01	47.80						15
16	48.07		47.49	48.65	45.69	46.27	47.64						16
17	48.31		47.25	49.38	45.50	47.59	47.51						17
18	48.69		47.27	49.95		47.71	47.43						18
19	48.96		47.44	50.33		47.72	47.36						19
20	49.02		47.26	50.27	45.97	47.76	47.00						20
21	48.23		47.16	49.99	46.43	47.78	45.54						21
22	47.37		47.79	49.59	45.53	47.76							22
23	48.18		48.38	49.37		47.72							23
24	48.39		48.17	49.20		47.29							24
25	48.38		48.02	49.08		45.94							25
26	48.34		47.93	48.98									26
27	48.31		47.88	48.90									27
28	48.11		47.97	48.74									28
29	47.93		48.27	48.64									29
30	47.92		48.58	48.55		47.36							30
31			48.84	48.48		48.77							31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-19-74	1315	50.38									

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 01 36	121 49 16	NE35 14N 1E		53.3	3/1/40	JAN 40-DATE #	JAN 35-DATE #	1935		0.00	USED
Station located west of north end of weir, 5.0 mi. SE of Grimes. Gage heights below weir crest (elevation 45.45 ft.) are not tabulated.											
# - Flood season only.											

**TABLE B-11 (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1973	A02971	BUTTE SLOUGH AT MAWSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				NR	49.82	54.39	46.19	41.85					1
2				NR	49.43	NR	46.00	NR					2
3				NR	49.02	NR	45.66	NR					3
4				NR	48.63	NR	45.40	NR					4
5				NR	48.37	NR	45.21	NR					5
6				NR	49.37	NR	45.04	NR					6
7				NR	51.20	NR	44.94	NR					7
8				NR	53.65	NR	44.84	NR					8
9				NR	55.14	NR	44.64	NR					9
10	N	N	N	NR	55.03	NR	44.42	NR	N	N	N	N	10
11	O	O	O	NR	55.34	NR	44.26	NR	O	O	O	O	11
12				51.87	55.63	NR	44.24	NR					12
13				54.90	55.54	NR	44.22	NR					13
14	R	R	R	55.86	55.20	NR	44.18	NR	R	R	R	R	14
15	E	E	E	55.21	55.03	NR	44.08	NR	E	E	E	E	15
16				54.00	55.14	47.65	43.80	NR					16
17	C	C	C	54.77	54.74	47.53	43.56	NR	C	C	C	C	17
18				57.14	53.72	47.31	43.41	NR					18
19	O	O	O	58.20	52.61	46.83	43.35	NR	O	O	O	O	19
20				58.94	51.46	46.58	42.98	NR					20
21	R	R	R	58.60	50.24	46.89	42.58	NR	R	R	R	R	21
22	D	D	D	57.57	49.20	46.96	42.15	NR	D	D	D	D	22
23				56.66	48.49	46.99	41.61	NR					23
24				55.88	48.02	46.99	41.35	NR					24
25				55.26	47.82	46.99	41.40	NR					25
26				54.52	47.70	46.79	41.62	NR					26
27				53.41	47.93	46.52	42.10	NR					27
28				52.15	51.08	46.29	41.97	NR					28
29				51.00		46.04	41.87	NR					29
30				50.09		45.98	41.82	NR					30
31				49.67		45.88		NR					31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-20-73	1430	59.03									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 11 14	121 54 28	SE31 16N 1E				JAN 39-SEP 66	NOV 34-MAY 37 # OCT 37-SEP 66 JAN 73	1934		0.00	USED
Station located at West Butte-Meridian Highway bridge, 3.0 mi. N of Meridian. Tributary to Sutter Bypass. During flood periods, Sacramento River water enters Butte Basin above Butte City by bank spill and spill over Moulton and Colusa Weirs. Stage only, for flow figures - see Butte Slough near Meridian. # - Flood season only.											

**TABLE B-II (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A02971	BUTTE SLOUGH AT MAWSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		NR	51.45	55.72	54.79	46.21	59.03	45.67					1
2		NR	54.18	54.91	54.26	47.88	61.18	44.88					2
3		NR	56.29	54.19	53.79	50.95	61.78	44.31					3
4		NR	55.91	53.50	53.05	51.31	61.80	43.67					4
5		NR	55.03	52.47	52.39	50.79	61.04	43.08					5
6		NR	54.53	51.49	51.66	50.00	59.48	42.64					6
7		NR	54.07	50.85	50.71	49.41	57.61	42.64					7
8		NR	53.70	50.36	49.43	49.84	56.03	42.54					8
9		43.42	53.33	49.85	48.42	52.07	54.87	42.52					9
10	N	43.64	52.66	49.03	47.81	51.51	54.10	42.68	N	N	N	N	10
11	O	45.44	51.64	48.23	47.40	50.50	53.62	42.61	O	O	O	O	11
12		46.98	50.70	47.82	47.16	49.56	53.20	42.63					12
13		51.98	50.16	47.59	46.98	49.11	52.79	42.64					13
14	R	54.33	49.86	48.01	46.82	49.17	52.48	42.64	R	R	R	R	14
15	E	54.27	49.78	50.02	46.65	49.12	52.20	43.10	E	E	E	E	15
16		53.62	49.16	53.63	46.55	48.87	51.64	43.33					16
17	C	53.49	48.31	57.51	46.49	49.29	50.71	43.33	C	C	C	C	17
18		54.21	47.74	61.42	46.42	50.80	49.71	43.59					18
19	O	55.12	47.52	62.78	46.35	51.24	48.94	44.12	O	O	O	O	19
20		55.55	47.47	62.34	46.40	51.26	48.27	44.49					20
21	R	54.98	47.42	61.67	46.45	51.12	47.70	44.76	R	R	R	R	21
22	D	53.30	48.32	60.66	46.44	50.92	47.29	44.93	D	D	D	D	22
23		52.66	52.56	59.81	46.34	50.64	46.69	44.76					23
24		53.05	53.33	59.06	46.19	49.88	46.19	44.72					24
25		53.08	53.04	58.45	46.03	48.76	46.19	44.83					25
26		53.12	52.54	57.96	45.92	48.02	46.26	45.07					26
27		52.95	52.07	57.49	45.80	47.56	46.02	45.33					27
28		52.48	51.99	56.97	45.82	47.38	45.83	45.46					28
29		51.69	52.88	56.40		47.40	46.00	45.54					29
30		51.12	54.23	55.84		48.90	45.80	45.73					30
31			55.50	55.31		55.04		45.80					31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-19-74	1145	62.91									

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 11 14	121 54 28	SE31 16N 1E				JAN 39-SEP 66	NOV 34-MAY 37 # OCT 37-SEP 66 JAN 73	1934		0.00	USED

Station located at West Butte-Meridian Highway bridge, 3.0 mi. N of Meridian. Tributary to Sutter Bypass. During flood periods, Sacramento River water enters Butte Basin above Butte City by bank spill and spill over Moulton and Colusa Weirs. Stage only, for flow figures - see Butte Slough near Meridian.

# - Flood season only.

**TABLE B-II (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A02927	SUTTER BYPASS AT RECLAMATION DISTRICT 1500 PUMPING PLANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	16.02	15.15	33.85	35.16	34.87	24.16	36.71	22.39	20.54	16.30	18.33	19.77	1
2	15.95	15.17	34.82	35.02	34.67	28.61	38.00	21.26	20.63	16.12	18.31	19.77	2
3	15.95	15.08	35.03	34.79	34.48	33.35	38.26	20.05	20.56	16.21	18.28	19.86	3
4	15.96	15.02	35.21	34.57	34.27	33.64	38.20	19.27	20.43	16.37	18.37	19.99	4
5	15.83	15.04	34.97	34.29	33.96	33.25	37.92	18.73	20.42	16.34	18.38	20.08	5
6	15.76	15.20	34.73	33.99	33.64	32.61	37.23	18.00	20.11	16.36	18.57	20.23	6
7	15.75	15.44	34.56	33.68	33.25	31.87	36.48	17.63	19.67	16.24	18.55	20.45	7
8	15.70	16.18	34.40	33.56	32.70	31.85	35.93	18.84	19.39	16.52	18.54	20.71	8
9	15.92	17.15	34.26	33.37	31.89	32.92	35.50	19.89	18.93	18.43	18.60	20.61	9
10	15.96	18.30	34.08	32.95	30.74	33.39	35.14	20.11	18.53	19.53	18.78	20.61	10
11	15.82	20.06	33.76	32.24	29.51	33.37	34.75	20.26	18.15	20.40	18.98	20.73	11
12	15.79	24.83	33.34	31.51	28.06	33.15	34.36	21.08	18.02	20.43	19.17	20.80	12
13	15.63	28.80	32.89	31.16	26.77	33.22	34.09	21.32	17.72	20.27	19.26	20.70	13
14	15.66	31.51	32.58	31.20	26.00	33.02	33.94	21.59	17.56	19.92	19.36	20.48	14
15	15.53	33.81	32.05	32.33	25.82	32.48	33.80	21.68	17.99	19.54	19.40	20.31	15
16	15.38	34.43	31.46	34.36	25.76	31.77	33.65	21.15	18.71	19.42	19.48	20.19	16
17	15.43	34.67	30.86	35.49	25.65	31.67	33.39	20.45	18.39	19.24	19.46	20.17	17
18	15.19	35.21	30.34	37.06	25.33	32.26	33.11	20.69	17.53	19.04	19.53	20.17	18
19	14.97	35.45	29.97	38.25	25.01	32.75	32.83	21.06	17.89	18.85	19.56	19.93	19
20	14.87	35.45	29.76	38.46	25.46	33.05	32.50	21.20	18.55	18.74	19.64	19.49	20
21	14.81	35.37	29.53	38.26	26.28	33.17	31.79	21.25	18.70	18.58	19.62	18.95	21
22	14.86	34.94	29.74	37.85	26.50	33.21	30.27	21.02	18.75	18.51	19.66	18.60	22
23	15.21	34.59	30.84	37.29	26.13	33.18	28.59	20.27	18.73	18.39	19.64	18.31	23
24	15.62	34.51	32.03	36.85	25.54	33.07	27.16	19.51	18.30	18.30	19.73	18.17	24
25	15.86	34.54	33.09	36.53	25.13	32.61	25.89	19.24	17.61	18.19	19.83	18.08	25
26	15.81	34.56	33.34	36.31	24.83	31.51	24.74	19.53	17.10	18.21	19.82	17.86	26
27	15.49	34.42	33.50	36.05	24.43	30.04	23.81	19.68	16.64	18.23	19.90	17.65	27
28	15.32	34.11	34.10	35.77	23.89	29.21	23.04	19.83	16.49	18.27	19.98	17.58	28
29	15.30	33.75	34.37	35.48		29.62	22.52	19.74	16.88	18.17	20.04	17.48	29
30	15.22	33.44	34.82	35.22		31.67	22.49	20.24	16.90	18.26	20.10	17.40	30
31	15.18		35.01	35.03		35.16		20.45		18.28	19.84		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-20-74	0045	38.47									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
							1915 - DATE			0.00	USED
Station located on west levee, 3.7 mi. SE of Knights Landing.											

**TABLE B-11 (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A02170	SACRAMENTO RIVER AT FREMONT WEIR, WEST END

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	17.56	16.56	34.41	35.55	35.27	25.46	36.46	23.92	21.76	17.78	19.20	20.88	1
2	17.54	16.60	35.16	35.41	35.12	30.96	37.70	22.36	21.79	17.65	19.23	20.92	2
3	17.52	16.52	35.41	35.23	34.98	34.19	37.95	21.02	21.73	17.66	19.21	20.98	3
4	17.54	16.46	35.57	35.08	34.83	34.41	37.89	20.25	21.61	17.70	19.24	21.16	4
5	17.40	16.45	35.44	34.86	34.67	34.14	37.68	19.49	21.59	17.57	19.29	21.27	5
6	17.33	16.62	35.24	34.66	34.43	33.64	37.16	18.93	21.17	17.50	19.44	21.35	6
7	17.23	16.87	35.10	34.48	34.17	33.02	36.55	18.61	20.80	17.46	19.44	21.53	7
8	17.15	17.48	34.99	34.41	33.80	33.16	36.10	20.49	20.52	17.73	19.43	21.70	8
9	17.43	18.71	34.89	34.29	33.14	33.98	35.75	21.89	20.10	19.25	19.53	21.76	9
10	17.52	19.81	34.78	34.00	32.04	34.25	35.49	22.21	19.76	20.40	19.72	21.84	10
11	17.35	21.37	34.58	33.45	30.52	34.23	35.21	22.36	19.40	21.33	19.97	21.93	11
12	17.33	27.05	34.35	32.84	28.35	34.08	34.94	22.95	19.24	21.43	20.17	21.96	12
13	17.17	30.92	34.05	32.61	26.87	34.15	34.71	23.15	19.00	21.24	20.26	21.77	13
14	17.17	32.71	33.86	32.73	27.46	34.01	34.59	23.37	18.85	20.87	20.35	21.54	14
15	17.07	34.37	33.55	33.61	27.93	33.58	34.50	23.32	19.29	20.41	20.40	21.48	15
16	16.92	34.89	33.14	34.94	27.97	33.00	34.41	22.61	19.90	20.31	20.49	21.44	16
17	16.85	35.10	32.30	35.78	27.87	33.09	34.25	21.90	19.65	20.15	20.46	21.38	17
18	16.52	35.46	31.80	36.98	27.49	33.55	34.08	22.09	18.88	19.96	20.52	21.40	18
19	16.28	35.77	31.43	37.90	27.02	33.87	33.93	22.38	19.07	19.77	20.60	21.07	19
20	16.21	35.76	31.21	38.06	27.70	34.07	33.71	22.59	19.58	19.61	20.67	20.55	20
21	16.14	35.71	30.96	37.92	28.63	34.13	33.00	22.58	19.73	19.49	20.65	19.99	21
22	16.13	35.41	31.40	37.59	28.45	34.16	31.14	22.26	19.84	19.44	20.66	19.62	22
23	16.49	35.10	32.52	37.16	27.96	34.15	28.62	21.57	19.79	19.36	20.70	19.39	23
24	16.97	35.04	33.40	36.82	27.37	34.06	26.80	20.91	19.47	19.26	20.76	19.30	24
25	17.31	35.03	34.09	36.57	26.97	33.76	25.61	20.64	18.98	19.12	20.85	19.19	25
26	17.28	35.07	34.24	36.39	26.55	32.74	24.86	20.84	18.58	19.09	20.86	18.98	26
27	16.93	35.01	34.35	36.19	25.95	32.52	24.34	21.01	18.14	19.11	20.89	18.80	27
28	16.75	34.81	34.73	35.97	25.31	32.52	24.00	21.16	17.98	19.14	20.97	18.77	28
29	16.77	34.57	34.92	35.74		32.52	23.80	21.13	18.18	19.09	21.03	18.66	29
30	16.64	34.36	35.29	35.54		33.02	24.15	21.52	18.17	19.13	21.06	18.60	30
31	16.61		35.42	35.40		35.41		21.71		19.14	20.89		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-19-73	0700	35.80	1-01-74	1200	35.61	3-3-74	1800	34.53	4-3-74	0200	38.01
12-04-73	1230	35.61	1-20-74	0730	38.10						

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 45 34	121 39 59	NW 32 11N 3E		39.7	12-23-1955		AUG 1934-DATE	1934		0.00	USED

Station located 0.1 mile west of weir, 4.0 miles southeast of Knights Landing.

**TABLE B-II (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A02160	SACRAMENTO RIVER AT FREMONT WEIR, EAST END

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			34.01	34.91	34.64		35.99						1
2			34.69	34.79	34.56		36.85						2
3			34.82	34.59	34.42	33.75	37.17						3
4			34.93	34.48	34.29	33.83	37.12						4
5			34.76	34.27	34.13	33.56	36.90						5
6			34.60	34.18	33.84		36.45						6
7			34.48	33.87	33.56		35.94						7
8			34.37	33.78			35.52						8
9			34.28	33.65			35.21						9
10			34.14	33.50		33.63	34.95						10
11			33.91			33.61	34.89						11
12			33.62				34.43						12
13						33.52	34.21						13
14		33.50					34.08						14
15		33.98		33.54			33.98						15
16		34.38		34.33			33.86						16
17		34.58		35.14			33.64						17
18		34.97		36.30			33.51						18
19		35.16		37.10									19
20		35.12		37.35									20
21		35.07		37.23									21
22		34.76		36.89									22
23		34.52		36.46									23
24		34.48		36.14									24
25		34.47	33.52	35.91									25
26		34.50	33.57	35.76									26
27		34.39	33.70	35.57									27
28		34.17	34.16	35.37									28
29		33.92	34.36	35.15									29
30		33.68	34.67	34.94		33.54							30
31			34.78	34.79		34.90							31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-19-73	1100	35.18	1-20-74	0100	37.36	4-2-74	2330	37.22			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 45 55	121 38 05	SW 27 11N 3E		39.3	3-10-1940		APR 1935-DATE	1935		0.00	USED

Station located approximately 200 feet north of weir, 5.2 miles southeast of Knights Landing. Gage heights recorded only during periods when there is spill over weir.



**TABLE B-II (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A05191	FEATHER RIVER AT OROVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.50	0.49	0.50	0.48	0.48	0.52	10.34	0.52	0.51	0.51	0.52	0.52	1
2	0.51	0.49	0.49	0.48	0.48	0.50	11.63	0.52	0.51	0.51	0.52	0.51	2
3	0.50	0.49	0.49	0.48	0.48	0.50	11.63	0.52	0.51	0.52	0.52	0.52	3
4	0.50	0.49	0.49	0.48	0.48	0.50	10.85	0.52	0.50	0.51	0.53	0.52	4
5	0.50	0.49	0.49	0.48	0.48	0.49	6.84	0.53	0.50	0.52	0.53	0.51	5
6	0.50	0.49	0.49	0.49	0.48	0.49	5.56	0.52	0.51	0.52	0.52	0.52	6
7	0.50	0.49	0.49	0.51	0.48	0.50	4.80	0.52	0.51	0.52	0.53	0.52	7
8	0.50	0.49	0.49	0.50	0.49	0.50	4.02	0.53	0.51	0.52	0.52	0.52	8
9	0.50	0.49	0.49	0.49	0.49	0.50	3.43	0.53	0.51	0.52	0.52	0.52	9
10	0.50	0.49	0.49	0.49	0.48	0.50	1.61	0.53	0.51	0.52	0.52	0.52	10
11	0.50	0.50	0.48	0.49	0.48	0.50	0.51	0.53	0.51	0.52	0.52	0.51	11
12	0.50	0.50	0.48	0.49	0.49	0.50	0.51	0.53	0.51	0.52	0.52	0.51	12
13	0.50	0.51	0.49	0.49	0.49	0.49	0.50	0.54	0.52	0.52	0.52	0.52	13
14	0.50	0.51	0.49	0.51	0.49	0.50	0.50	0.54	0.52	0.52	0.52	0.51	14
15	0.50	0.50	0.48	1.74	0.49	0.50	0.51	0.53	0.51	0.52	0.52	0.51	15
16	0.50	1.46	0.49	5.19	0.49	0.49	0.52	0.53	0.51	0.52	0.52	0.51	16
17	0.50	4.48	0.49	9.77	0.49	0.49	0.51	0.52	0.51	0.52	0.51	0.51	17
18	0.50	4.44	0.49	10.63	0.49	0.48	0.51	0.52	0.51	0.52	0.52	0.51	18
19	0.50	3.28	0.49	9.97	0.50	0.48	0.51	0.52	0.52	0.51	0.52	0.51	19
20	0.50	3.29	0.49	9.97	0.50	0.48	0.51	0.52	0.52	0.51	0.52	0.51	20
21	0.50	3.27	0.49	9.91	0.49	0.48	0.51	0.52	0.51	0.52	0.52	0.51	21
22	0.50	3.28	0.48	8.41	0.50	0.48	0.51	0.52	0.51	0.52	0.52	0.51	22
23	0.50	3.27	0.48	6.75	0.49	0.50	0.51	0.51	0.51	0.52	0.51	0.51	23
24	0.50	3.28	0.48	6.11	0.49	0.51	0.51	0.51	0.51	0.52	0.52	0.51	24
25	0.50	3.26	0.49	6.09	0.49	0.50	0.52	0.51	0.51	0.52	0.51	0.52	25
26	0.49	1.46	0.50	4.27	0.50	0.50	0.52	0.51	0.51	0.52	0.52	0.51	26
27	0.48	0.49	0.50	2.37	0.50	0.50	0.51	0.51	0.51	0.52	0.52	0.51	27
28	0.48	0.49	0.49	0.50	0.51	0.50	0.51	0.51	0.51	0.52	0.52	0.51	28
29	0.48	0.49	0.49	0.48		2.36	0.51	0.51	0.51	0.52	0.52	0.51	29
30	0.48	0.51	0.49	0.48		8.12	0.51	0.51	0.51	0.53	0.52	0.52	30
31	0.49		0.49	0.48		9.47		0.51		0.53	0.52		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-17-73	0815	4.68	1-18-74	1115	10.91	4-4-74	0815	11.75			

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 31 18	121 32 48	SE 8 19N 4E	230,000		3-19-1907	OCT 1901-DATE	OCT 1901-DATE	1912	1934	139.53	USCGS
								1934	1962	182.02	USCGS
								1962	1964	0.00	USCGS
								1964		148.97	USCGS

Station located 300 feet above Fish Barrier Dam, 0.6 mile northeast of Oroville. Flow is regulated by reservoirs and powerplants. Maximum discharge listed at site then in use (approximately 167.5 feet, USCGS Datum).

**TABLE B-II (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A05165	FEATHER RIVER NEAR GRIDLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	75.94	75.95	80.27	79.56	80.63	78.18	88.24	77.68	76.30	76.00	78.04	78.06	1
2	75.92	75.95	80.20	79.72	80.36	79.09	89.60	77.68	76.26	76.24	78.03	78.07	2
3	75.89	75.95	80.17	80.13	80.30	79.37	89.82	77.66	76.27	76.54	77.98	78.08	3
4	75.91	75.94	80.13	80.12	80.26	79.41	89.58	77.65	76.28	76.55	77.97	78.09	4
5	75.91	75.99	80.11	80.10	80.20	79.44	86.75	77.29	76.28	76.54	78.03	78.10	5
6	75.92	75.99	80.10	78.90	79.60	79.44	84.98	77.08	76.28	76.53	78.04	78.14	6
7	75.92	75.98	80.12	79.12	79.15	79.57	84.39	77.06	76.27	76.54	78.07	78.09	7
8	75.93	75.98	80.23	79.52	78.92	79.73	83.48	77.06	76.27	76.99	78.08	78.08	8
9	75.92	75.99	80.22	79.28	78.74	79.75	83.14	77.06	76.27	77.42	78.08	78.10	9
10	75.92	76.00	80.21	78.88	78.10	79.76	81.99	77.06	76.28	77.99	78.08	78.14	10
11	75.91	77.68	80.10	78.88	77.54	79.77	80.99	78.08	76.28	78.01	78.07	78.12	11
12	75.92	80.62	79.33	78.88	77.48	79.76	80.53	78.16	76.28	78.04	78.05	78.11	12
13	75.91	80.86	79.05	78.83	77.45	79.88	80.51	78.41	76.54	78.05	78.12	78.12	13
14	75.90	81.38	78.03	79.03	77.43	80.03	80.49	78.24	77.44	78.04	78.11	78.08	14
15	75.92	81.42	77.88	80.25	77.43	80.04	80.46	78.21	77.99	78.05	78.09	78.05	15
16	75.93	81.57	77.84	82.26	77.41	80.14	80.44	78.19	77.36	78.05	78.10	78.09	16
17	75.93	83.36	77.88	86.68	77.02	80.31	80.43	78.21	76.02	78.05	78.07	78.11	17
18	75.93	83.84	77.86	88.05	77.01	80.29	80.44	78.19	76.48	78.07	78.05	78.11	18
19	75.92	82.83	77.86	88.35	77.02	80.30	80.43	78.19	77.16	78.05	78.05	78.10	19
20	75.92	82.73	77.87	88.40	77.00	80.30	80.43	78.16	77.17	78.02	78.09	78.12	20
21	75.90	82.72	77.86	88.36	77.02	80.29	80.15	77.85	77.16	78.03	78.09	78.10	21
22	75.94	82.70	77.84	87.58	76.99	80.31	80.02	77.67	77.14	78.03	78.10	78.08	22
23	75.96	82.71	77.84	86.16	76.97	80.34	79.60	77.35	76.78	78.05	78.07	78.11	23
24	75.95	82.69	77.83	85.39	77.48	80.34	79.11	76.99	76.31	78.04	78.05	78.13	24
25	75.92	82.70	77.84	85.30	77.77	80.35	78.62	76.48	76.04	78.04	NR	78.07	25
26	75.92	82.10	77.91	84.15	77.78	79.98	78.59	76.28	75.81	78.05	NR	78.01	26
27	75.92	80.91	78.27	82.78	77.79	79.80	78.57	76.25	75.77	78.02	NR	77.99	27
28	75.90	80.26	78.28	81.63	77.83	79.89	78.14	76.28	75.78	77.98	NR	77.96	28
29	75.90	80.22	78.31	81.15		81.18	77.72	76.30	75.77	78.01	NR	77.95	29
30	75.95	80.20	79.08	80.76		86.08	77.69	76.30	75.75	78.04	NR	77.98	30
31	75.95		79.58	80.72		87.58		76.29		78.04	NR		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-18-73	0630	83.91	1-5-74	1100	80.68	1-20-74	1645	88.48	4-4-74	0600	89.98

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 22 01	121 38 43	SW 33 18N 3E		102.25	12-23-1955	JAN 1944-DATE	MAR 29-MAY 37 # OCT 37-APR 39 NOV 39-JUL 40 OCT 40-JUL 43 OCT 43-DATE	1929	1929	0.00 -2.91	USED USCGS

Station located near highway bridge, 2.7 miles east of Gridley. Subsequent to 1962, tabulations include all left-bank overflow. Records of discharge published prior to 1963 listed only that water in the main channel. Drainage area is 3,676 square miles.

# - Flood season only.

**TABLE B-11 (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A05135	FEATHER RIVER AT YUBA CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	40.92	41.10	50.17	47.65	48.40	46.97	61.83	44.09	42.62	41.10	43.77	43.49	1
2	40.90	41.11	49.56	47.26	48.13	53.11	63.05	44.00	42.65	41.07	43.76	43.41	2
3	40.89	41.10	48.28	47.67	47.86	49.93	61.97	43.94	42.63	41.14	43.72	43.37	3
4	40.88	41.09	47.80	47.70	47.76	47.83	61.23	43.90	42.64	41.33	43.69	43.37	4
5	40.87	41.13	47.57	47.93	47.69	47.23	59.54	43.75	42.69	41.46	43.71	43.36	5
6	40.87	41.28	47.48	46.48	47.44	47.14	56.79	43.38	42.62	41.53	43.78	43.37	6
7	40.92	41.32	47.42	46.32	46.59	47.16	55.60	43.25	42.51	41.56	43.78	43.39	7
8	40.95	41.57	47.56	46.93	46.14	48.57	54.47	43.18	42.43	41.77	43.80	43.37	8
9	40.95	41.46	47.55	46.82	45.78	47.99	53.53	43.14	42.34	42.26	43.81	43.35	9
10	40.93	41.74	47.47	46.04	45.19	47.59	52.04	43.10	42.28	43.03	43.83	43.35	10
11	40.92	43.22	47.31	45.90	44.72	47.39	50.08	43.46	42.23	43.75	43.81	43.40	11
12	40.89	49.47	46.59	46.16	44.28	47.93	48.61	44.36	42.21	43.70	43.83	43.39	12
13	40.89	49.16	46.34	46.43	44.15	48.13	48.35	44.45	42.14	43.70	43.84	43.38	13
14	40.89	49.56	45.38	46.46	44.09	48.02	48.28	44.73	42.33	43.68	43.88	43.36	14
15	40.87	49.29	44.68	51.45	44.05	47.82	48.20	44.49	43.69	43.68	43.87	43.32	15
16	40.86	49.32	44.51	52.44	44.03	47.81	48.12	44.31	44.05	43.82	43.86	43.30	16
17	40.94	51.08	44.45	56.09	43.96	48.04	48.05	44.30	43.05	43.81	43.86	43.32	17
18	40.97	53.72	44.46	58.84	43.74	48.01	48.03	44.46	42.55	43.84	43.84	43.32	18
19	40.98	52.66	44.53	60.03	43.94	47.95	48.01	44.49	42.53	43.79	43.82	43.31	19
20	40.99	51.39	44.47	60.99	44.31	47.87	47.98	44.49	42.75	43.76	43.82	43.31	20
21	41.00	51.10	44.55	60.66	43.95	47.84	47.71	44.29	42.78	43.73	43.83	43.32	21
22	41.03	50.91	45.63	59.74	43.79	47.82	47.47	43.93	42.76	43.73	43.84	43.32	22
23	41.17	50.83	45.27	57.80	43.72	47.88	46.95	43.27	42.70	43.77	43.84	43.30	23
24	41.20	50.80	44.89	56.30	43.81	47.89	46.55	43.03	42.45	43.75	43.83	43.29	24
25	41.18	50.81	44.68	55.70	44.44	47.90	45.74	42.79	42.10	43.75	43.84	43.29	25
26	41.13	50.66	44.43	54.62	44.54	47.72	45.47	42.59	41.72	43.77	43.83	43.27	26
27	41.11	49.09	45.88	52.91	44.55	47.47	45.36	42.41	41.42	43.76	43.84	43.25	27
28	41.09	47.70	47.79	50.95	44.60	48.95	45.12	42.29	41.27	43.70	43.86	43.22	28
29	41.06	47.43	48.84	49.63		50.38	44.53	42.21	41.29	43.65	43.87	43.19	29
30	41.07	47.37	48.90	48.65		56.78	44.16	42.49	41.22	43.75	43.85	43.16	30
31	41.09		47.96	48.47		60.46		42.58		43.74	43.66		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E - ESTIMATED  
 NR - NO RECORD  
 NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-18-73	0630	53.86	12-29-73	2030	50.09	1-20-74	0730	61.13	4-2-74	1100	63.29

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 08 20	121 36 17	NE 23 15N 3E		82.42	12-24-1955	JUL 44-OCT 45 JAN 46-SEPT 63	NOV 1943-DATE	1943 1943		0.00 -3.0	USED USCGS

Station located at Sacramento Northern Railroad bridge. Backwater from Yuba River at times affects stage-discharge relationship. Drainage area is 3,977 square miles.

" - Irrigation season only.

**TABLE B-II (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A05120	FEATHER RIVER BELOW SHANGHAI BEND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	35.16	35.51	45.83	43.46	43.98	42.55	57.04	39.33	37.97	35.28	38.37	37.42	1
2	35.15	35.47	45.62	42.92	43.70	49.15	58.11	39.21	38.02	35.57	38.36	37.37	2
3	35.15	35.45	44.04	43.19	43.37	46.29	57.05	39.14	37.70	35.89	38.29	37.38	3
4	35.13	35.43	43.40	43.24	43.25	43.64	56.61	39.10	38.14	36.08	38.27	37.38	4
5	35.14	35.47	43.10	43.42	43.16	42.80	55.19	38.84	37.96	36.05	38.31	37.36	5
6	35.13	35.61	42.95	42.09	42.88	42.67	52.85	38.40	37.65	36.03	38.37	37.41	6
7	35.24	35.85	42.87	41.80	41.99	42.71	51.63	38.27	37.54	35.98	38.36	37.39	7
8	35.25	36.09	42.98	42.42	41.37	44.32	50.58	38.21	37.35	36.51	38.37	37.37	8
9	35.22	35.72	42.97	42.32	40.86	43.66	49.59	38.19	37.28	37.27	38.37	37.36	9
10	35.19	36.63	42.86	41.46	40.17	43.17	48.13	38.16	37.26	37.94	38.41	37.44	10
11	35.16	38.61	42.58	41.23	39.73	42.88	46.04	38.79	37.25	38.29	38.37	37.43	11
12	35.12	44.83	41.96	41.51	39.30	43.53	44.38	39.54	37.19	38.17	38.40	37.41	12
13	35.21	44.71	41.69	41.91	39.26	43.82	44.02	39.60	37.00	38.17	38.45	37.40	13
14	35.18	45.04	40.65	41.91	39.20	NR	43.90	39.88	37.80	38.14	38.48	37.37	14
15	34.99	44.83	39.81	47.01	39.16	NR	43.80	39.62	38.88	38.17	38.45	NR	15
16	35.28	44.89	39.63	48.47	39.16	NR	43.72	39.19	39.06	38.44	38.45	NR	16
17	35.36	46.53	39.54	51.44	38.94	NR	43.62	39.36	37.16	38.42	38.44	NR	17
18	35.35	49.55	39.52	54.05	38.62	NR	43.58	39.58	36.95	38.46	38.42	NR	18
19	35.36	48.63	39.65	55.17	39.28	43.40	43.58	39.65	37.62	38.41	38.38	NR	19
20	35.36	47.21	39.56	56.18	39.66	43.30	43.55	39.65	37.77	38.38	38.43	NR	20
21	35.33	46.82	39.69	55.95	39.20	43.24	43.27	39.39	37.48	38.34	38.46	NR	21
22	35.41	46.57	41.04	55.19	39.05	43.22	42.98	38.84	37.43	38.33	38.47	NR	22
23	35.63	46.46	40.59	53.54	38.97	43.29	42.44	37.45	37.22	38.37	38.42	NR	23
24	35.57	46.39	40.15	52.28	39.08	43.32	42.06	36.98	36.65	38.35	38.43	NR	24
25	35.53	46.37	39.90	51.63	39.65	43.31	41.23	37.51	36.12	38.35	38.46	NR	25
26	35.46	46.28	39.53	50.60	39.72	43.13	40.89	37.30	35.66	38.37	38.40	37.12	26
27	35.47	44.76	41.24	48.94	39.73	42.92	40.75	37.23	35.39	38.35	38.51	37.10	27
28	35.44	43.23	43.53	46.91	39.77	44.70	40.43	37.13	36.08	38.20	38.50	37.06	28
29	35.43	42.82	44.73	45.37		46.09	39.68	37.37	36.33	38.20	38.50	37.04	29
30	35.48	42.67	45.17	44.29		52.14	39.38	38.09	35.54	38.33	38.19	37.06	30
31	35.48		43.87	44.04		55.62		38.00		38.33	37.56		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E - ESTIMATED  
 NR - NO RECORD  
 NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11/18/73	1015	49.74	12/29/73	2315	46.21	1/20/74	1545	56.37	4/2/74	1130	58.41

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 04 44	121 36 08	NE 11 14N 3E		76.8	12-24-1955	JUN 44-OCT 45 <sup>o</sup> JAN 46-DATE	NOV 26-MAY 37 <sup>#</sup> OCT 37-MAY 39 NOV 39-JUL 41 NOV 41-JUL 43 <sup>#</sup> OCT 43-DATE	1926	1926	0.00 -3.01	USED USCGS

Station located approximately 4 miles south of Yuba City. Flow partly regulated by reservoirs and powerplants. Drainage area is 5,337 square miles.

<sup>o</sup> - Irrigation season only  
<sup>#</sup> - Flood season only.

**TABLE B-II (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A05103	FEATHER RIVER AT NICOLAUS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	23.95	24.31	36.86	36.92	36.50	30.48	43.94	27.89	26.25	23.52	26.60	26.00	1
2	23.93	24.33	38.79	36.62	36.29	38.45	45.06	27.64	26.31	23.77	26.63	25.93	2
3	23.93	24.31	37.19	36.36	36.01	39.40	44.73	27.57	26.17	24.08	26.61	25.90	3
4	23.91	24.30	36.76	36.24	35.80	36.72	44.37	27.47	26.38	24.37	26.57	26.92	4
5	23.91	24.28	36.40	36.02	35.57	35.39	43.74	27.33	26.40	24.45	26.57	25.91	5
6	23.89	24.37	36.10	35.62	35.27	34.74	42.40	26.87	26.11	24.42	26.63	25.90	6
7	23.94	24.47	35.92	35.30	34.71	34.22	41.31	26.66	25.98	24.38	26.65	25.95	7
8	24.00	24.89	35.80	35.34	34.12	35.13	40.69	26.58	25.81	24.50	26.66	25.93	8
9	24.02	24.80	35.70	35.27	33.37	35.47	39.97	26.55	25.65	25.20	26.68	25.93	9
10	23.99	24.87	35.54	34.60	32.20	35.37	39.21	26.52	25.66	25.74	26.68	25.96	10
11	23.99	26.00	35.24	33.96	31.01	35.39	37.74	26.58	25.62	26.43	26.70	26.01	11
12	23.97	32.33	34.79	33.57	29.48	35.59	36.45	27.44	25.64	26.50	26.70	25.99	12
13	23.99	34.50	34.33	33.63	28.70	35.73	35.94	37.77	25.45	26.49	26.70	25.97	13
14	24.02	34.90	33.94	33.65	28.56	35.48	35.75	28.01	25.60	26.47	26.78	25.96	14
15	24.00	35.95	33.17	36.21	28.53	35.00	35.62	27.97	26.42	26.42	26.79	25.89	15
16	23.87	36.33	32.59	39.58	28.52	34.50	35.50	27.76	27.16	26.56	26.78	25.85	16
17	24.12	37.08	32.06	40.68	28.47	34.44	35.32	27.06	26.13	26.68	26.80	25.88	17
18	24.14	39.56	31.60	42.76	28.04	34.73	35.13	27.54	25.19	26.69	26.79	25.90	18
19	24.16	40.06	31.39	44.00	28.34	34.95	34.97	27.74	25.54	26.69	26.77	25.89	19
20	24.16	38.91	31.17	44.47	29.61	35.06	34.77	27.83	26.11	26.64	26.78	25.87	20
21	24.17	38.38	31.04	44.35	29.19	35.11	34.32	27.81	25.98	26.58	26.81	25.88	21
22	24.17	37.96	32.05	43.80	29.02	35.14	33.29	27.40	25.84	26.57	26.82	25.88	22
23	24.32	37.55	32.78	42.74	28.82	35.15	32.08	26.05	25.78	26.56	26.82	25.85	23
24	24.39	37.39	33.24	41.84	28.53	35.11	31.20	25.49	25.32	26.58	26.79	25.87	24
25	24.37	37.37	33.92	41.26	28.85	34.89	30.36	25.62	24.70	26.55	26.82	25.89	25
26	24.24	37.32	34.05	40.85	28.89	34.30	29.70	25.68	24.18	26.56	26.83	25.80	26
27	24.28	36.65	34.74	39.98	28.81	33.33	29.49	25.59	23.86	26.57	26.84	25.74	27
28	24.28	35.71	36.13	38.79	28.72	33.98	29.21	25.54	23.71	26.55	26.91	25.70	28
29	24.28	35.21	37.28	37.65		35.64	28.48	25.32	24.56	26.38	26.91	25.66	29
30	24.27	34.95	38.31	36.96		39.52	28.07	26.44	24.21	26.51	26.86	25.66	30
31	24.30		37.21	36.62		43.12		26.27		26.56	26.18		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
ESTIMATED	11-19-73	0100	40.32	12-30-73	0730	38.60	3-2-74	2030	40.51	4-2-74	1730	45.26
NO RECORD	12-02-73	0400	39.28	01-20-74	1830	44.56						
NO FLOW												

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.S. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 53 26	121 26 12	SE 4 12N 3E	357,000	51.60	12-23-1955	JUN 21-OCT 28 01 JAN 39-DATE	1920-DATE	1920		0.00 -3.30	USED USCGS

Station located on left bank 1.7 miles southwest of Nicolaus and 4.2 miles below Bear River. Prior to September 1973, station located on State Highway 99 Bridge 1.2 miles upstream. Backwater at times affects the stage-discharge relationship. Flow partly regulated by reservoirs and powerplants. Maximum discharge of record is for period 1943 to date. Records furnished by U. S. Geological Survey. Drainage area is approximately 5,921 square miles.

n - Irrigation season only.

**TABLE B-11 (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A02150	SACRAMENTO RIVER AT VERONA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	15.37	14.55	33.00	34.30	33.91	23.36	36.03	21.64	19.46	15.40	17.46	18.69	1
2	15.32	14.57	34.13	34.14	33.72	28.72	37.41	20.48	19.50	15.22	17.48	18.71	2
3	15.31	14.49	34.11	33.87	33.52	32.69	37.71	19.32	19.53	15.32	17.46	18.79	3
4	15.31	14.42	34.19	33.66	33.32	32.93	37.62	18.61	19.38	15.49	17.47	18.88	4
5	15.21	14.41	33.92	33.38	33.05	32.47	37.36	18.08	19.46	15.46	17.51	18.99	5
6	15.14	14.58	33.66	33.11	32.72	31.85	36.66	17.36	19.14	15.41	17.65	19.10	6
7	15.11	14.80	33.48	32.87	32.32	31.16	35.85	16.88	18.70	15.35	17.68	19.26	7
8	15.06	15.49	33.32	32.78	31.80	31.17	35.28	18.05	18.45	15.46	17.66	19.40	8
9	15.25	16.44	33.19	32.57	31.02	32.10	34.81	19.21	18.03	17.20	17.71	19.49	9
10	15.34	17.47	33.01	32.12	29.80	32.54	34.46	19.46	17.70	18.38	17.86	19.52	10
11	15.21	19.14	32.71	31.42	28.33	32.54	34.01	19.58	17.37	19.35	18.06	19.63	11
12	15.18	24.66	32.32	30.74	26.25	31.92	33.55	20.42	17.21	19.41	18.25	19.69	12
13	15.04	28.41	31.87	30.42	24.68	32.47	33.23	20.71	16.95	19.25	18.33	19.62	13
14	15.04	30.58	31.59	30.43	24.64	32.30	33.06	20.95	16.77	18.95	18.45	19.44	14
15	14.95	32.72	31.02	31.63	24.84	31.79	32.91	21.00	17.29	18.58	18.50	19.30	15
16	14.78	33.37	30.39	33.71	24.83	31.09	32.77	20.48	18.06	18.49	18.57	19.25	16
17	14.87	33.76	29.73	34.84	24.76	30.92	32.52	19.74	18.01	18.40	18.55	19.21	17
18	14.66	34.48	29.15	36.41	24.37	31.46	32.27	20.01	16.83	18.22	18.57	19.22	18
19	14.43	34.74	28.76	37.66	24.07	31.90	32.03	20.30	16.94	18.05	18.66	19.03	19
20	14.32	34.61	28.50	37.89	24.78	32.17	31.75	20.48	17.57	17.91	18.70	18.61	20
21	14.23	34.51	28.25	37.72	25.47	32.28	31.08	20.50	17.78	17.76	18.71	18.14	21
22	14.25	34.12	28.74	37.34	25.46	32.33	29.46	20.19	17.81	17.71	18.72	17.79	22
23	14.59	33.70	29.90	36.63	25.09	32.30	27.26	19.34	17.79	17.63	18.73	17.57	23
24	14.98	33.59	30.95	36.12	24.55	32.21	25.36	18.51	17.46	17.54	18.77	17.45	24
25	15.21	33.59	31.95	35.78	24.27	31.83	24.18	18.19	16.83	17.40	18.85	17.39	25
26	15.20	33.62	32.23	35.55	24.01	30.79	23.36	18.47	16.23	17.37	18.90	17.20	26
27	14.91	33.44	32.50	35.26	23.59	29.19	22.72	18.58	15.74	17.39	18.91	17.01	27
28	14.73	33.07	33.12	34.94	23.09	28.35	22.10	18.72	15.51	17.39	19.01	16.94	28
29	14.70	32.70	33.59	34.58		28.98	21.71	18.59	15.94	17.35	19.07	16.85	29
30	14.60	32.41	34.11	34.28		31.02	21.76	19.20	15.98	17.40	19.10	16.77	30
31	14.59		34.19	34.05		34.50		19.38		17.42	18.85		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E — ESTIMATED  
 NR — NO RECORD  
 NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-19-73	0400	34.79	1-01-74	1200	34.34	3-3-74	1830	33.19	4-3-74	0200	37.77
12-04-73	0530	34.25	1-20-74	0100	37.90						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
38 46 50	121 36 10	SE 23 11N 3E	79,200	41.20	3-1-1940	MAY 26-OCT 28 <sup>00</sup> MAY 29-DATE	MAY 1926-DATE	1926		-0.06 -3.00	USED USCGS

Station located 0.8 mile southeast of Verona, 1.0 mile below the Feather River. Records furnished by U. S. Geological Survey. Drainage area is 21,275 square miles.

<sup>00</sup> - Irrigation season only.

TABLE B-II (CONT.)  
DAILY MEAN GAGE HEIGHT  
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A02105	SACRAMENTO RIVER AT SACRAMENTO WEIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	8.83	8.31	24.79	27.21	25.76	NR	27.86	14.51	12.15	9.40	NR	11.64	1
2	8.65	8.26	26.04	27.15	25.57	NR	29.08	13.68	12.18	NR	NR	11.66	2
3	8.64	8.19	25.97	26.64	25.33	NR	30.73	12.76	12.72	NR	NR	11.76	3
4	8.45	8.01	NR	25.91	25.19	NR	30.69	12.16	12.77	NR	NR	11.61	4
5	8.67	7.98	NR	25.48	24.86	NR	30.55	11.73	12.76	NR	NR	11.73	5
6	8.68	8.25	NR	25.31	24.32	NR	29.65	11.28	12.43	NR	NR	12.02	6
7	8.56	8.41	NR	25.27	23.87	NR	28.61	10.85	12.15	NR	NR	12.18	7
8	8.59	8.54	NR	25.27	23.41	NR	27.92	11.47	11.94	NR	NR	12.32	8
9	8.68	8.94	NR	25.34	22.75	NR	27.33	12.45	11.66	NR	NR	12.40	9
10	NR	9.58	NR	24.53	21.71	NR	26.85	12.49	11.38	NR	NR	12.43	10
11	NR	10.58	NR	23.74	20.45	NR	26.25	12.39	11.15	NR	NR	12.49	11
12	NR	14.50	NR	23.19	18.56	25.19	25.65	12.97	10.99	NR	NR	12.64	12
13	NR	19.34	NR	22.75	16.87	25.17	25.31	13.21	10.72	NR	NR	12.67	13
14	NR	21.96	NR	22.70	16.44	25.04	25.09	13.34	10.56	NR	NR	12.52	14
15	NR	23.94	NR	23.73	16.63	24.63	24.68	13.46	10.90	NR	NR	12.36	15
16	NR	25.66	NR	26.53	16.68	23.84	24.48	12.94	11.55	NR	NR	12.31	16
17	NR	26.66	NR	27.86	16.62	23.29	24.30	12.47	11.56	NR	NR	12.25	17
18	NR	27.36	NR	28.69	16.34	23.48	24.09	12.85	10.94	NR	NR	12.28	18
19	NR	27.54	NR	30.62	16.12	23.89	23.87	13.09	11.13	NR	NR	12.16	19
20	NR	27.38	NR	31.08	16.47	24.18	23.62	13.33	11.41	NR	NR	11.84	20
21	NR	27.30	NR	31.04	17.13	24.32	23.11	13.37	11.54	NR	NR	11.47	21
22	NR	26.79	NR	30.50	17.21	24.35	21.83	13.19	11.58	NR	NR	11.19	22
23	NR	25.65	NR	28.58	16.89	24.32	19.92	12.72	11.38	NR	11.54	11.03	23
24	NR	25.38	NR	27.87	16.41	24.26	18.11	11.68	10.93	NR	11.62	10.93	24
25	NR	25.34	NR	27.49	16.14	24.04	16.89	11.41	10.34	NR	11.77	11.04	25
26	NR	25.13	NR	27.26	15.97	23.01	16.07	11.77	9.80	NR	11.82	10.92	26
27	NR	24.76	NR	26.98	15.62	21.41	15.44	11.92	9.43	NR	11.82	10.74	27
28	NR	24.45	NR	26.68	15.38	20.33	14.86	12.12	9.13	NR	11.89	10.71	28
29	NR	24.12	25.45	26.36		20.74	14.46	12.02	9.40	NR	11.91	10.60	29
30	NR	23.91	26.44	26.00		21.69	14.49	11.98	9.72	NR	11.94	10.45	30
31	NR		27.06	25.79		24.33		11.99		NR	11.75		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED  
NR - NO RECORD  
NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-19-73	1345	27.57	1-1-74	1415	27.29	1-20-74	1615	31.15	4-3-74	1615	30.81

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 36 09	121 33 12	NE 29 9N 4E		33.1	12-23-1955		NOV 26-JULY 37# OCT 37-DATE	1926		0.00	USED
								1926		-3.07	USCGS
									1964	-3.49	USCGS
									1964	-3.00	USCGS

Station located 100 feet below weir, 4 miles northwest of Sacramento.

# - Flood season only.

**TABLE B-II (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A02100	SACRAMENTO RIVER AT SACRAMENTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.08	4.62	20.41	23.18	21.48	12.44	24.61	10.60	8.24	5.67	6.84	7.66	1
2	4.88	4.50	21.74	23.10	21.28	17.94	26.34	9.85	8.31	5.53	6.79	7.69	2
3	4.69	4.38	21.70	22.54	21.09	20.62	26.69	8.99	8.92	5.61	6.88	7.79	3
4	4.66	4.22	21.41	21.74	20.95	20.71	26.63	8.42	9.00	5.62	6.87	7.57	4
5	4.65	4.34	20.92	21.29	20.60	20.49	26.51	8.00	8.96	5.58	6.86	7.69	5
6	4.93	4.70	20.68	21.15	20.03	20.10	25.55	7.60	8.64	5.64	6.89	8.02	6
7	4.98	4.76	20.52	21.20	19.57	19.99	24.46	7.18	8.39	5.50	6.87	8.17	7
8	4.83	5.07	20.36	21.59	19.12	20.41	23.76	7.69	8.18	5.53	6.85	8.32	8
9	4.81	5.69	20.10	21.38	18.48	21.02	23.16	8.63	7.93	6.36	6.93	8.40	9
10	4.89	6.44	19.89	20.41	17.48	21.24	22.65	8.63	7.63	7.19	7.05	8.42	10
11	5.26	7.63	19.68	19.63	16.29	21.30	22.00	8.49	7.43	7.80	7.21	8.49	11
12	5.45	11.72	19.38	19.08	14.49	21.23	21.39	9.01	7.25	7.95	7.47	8.65	12
13	5.03	15.14	18.98	18.63	12.80	21.17	21.04	9.25	6.98	7.85	7.54	8.73	13
14	4.81	17.71	18.68	18.60	12.49	21.12	20.82	9.35	6.80	7.71	7.50	8.58	14
15	4.87	19.56	18.20	19.66	12.75	20.86	20.34	9.50	7.10	7.59	7.58	8.40	15
16	4.74	21.41	17.60	22.54	12.77	20.36	20.14	9.00	7.71	7.49	7.65	8.35	16
17	5.23	22.50	17.01	23.97	12.71	19.41	19.98	8.59	7.76	7.50	7.58	8.28	17
18	5.41	23.25	16.46	26.22	12.48	19.49	19.81	8.99	7.22	7.37	7.57	8.31	18
19	5.24	23.44	16.03	27.06	12.27	19.83	19.56	9.22	7.40	7.24	7.58	8.22	19
20	4.67	23.27	15.65	27.20	12.40	20.10	19.31	9.46	7.61	7.14	7.49	7.91	20
21	4.51	23.19	15.87	27.14	12.95	20.16	18.83	9.50	7.73	7.01	7.50	7.57	21
22	4.77	22.62	16.22	26.46	13.14	20.19	17.65	9.35	7.78	6.91	7.53	7.30	22
23	5.19	21.40	17.40	24.37	12.89	20.19	15.86	8.96	7.53	6.65	7.53	7.15	23
24	4.86	21.09	18.53	23.63	12.49	20.14	14.11	7.90	7.07	6.42	7.61	7.06	24
25	4.92	21.08	19.45	23.29	12.19	20.02	12.92	7.65	6.52	6.27	7.78	7.19	25
26	4.94	20.79	19.92	23.08	12.05	19.65	12.13	8.00	5.99	6.38	7.82	7.08	26
27	4.74	20.35	20.41	22.80	11.78	18.12	11.50	8.15	5.65	6.67	7.82	6.91	27
28	4.63	20.04	20.81	22.51	11.56	16.52	10.94	8.35	5.33	6.77	7.89	6.88	28
29	4.48	19.71	21.20	22.20		17.27	10.54	8.24	5.59	6.86	7.89	6.77	29
30	4.44	19.53	22.54	21.84		21.40	10.55	8.07	5.96	6.87	7.93	6.61	30
31	4.50		23.12	21.61		23.74		8.07		6.91	7.77		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E — ESTIMATED  
 NR — NO RECORD  
 NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-19-73	0345	23.50	1-20-74	0800	27.22	3-11-74	0845	21.30	4-3-74	0415	26.72
1-01-74	1230	23.23									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO		
38 35 20	121 30 15	NW 35 9N 4E	104,000	30.14	11-21-1950	04-- 05 JUN 21-NOV 21 MAY 24-DEC 42 MAY 43-DATE	JAN 04-JULY 05 20-DATE		1904	1956	0.12	USCGS
									1956		0.00	USCGS
									1956		2.98	USED
										1965	-0.23	USCGS
											0.00	USCGS

Station located 1,000 feet above I Street bridge, 0.5 mile below the American River. Below approximately 30,000 cfs the stage-discharge relationship is affected by tidal influence. Maximum discharge listed at site and datum then in use. Drainage area is 23,530 square miles.

0 - Irrigation season only.



**TABLE B-11 (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A07140	AMERICAN RIVER AT SACRAMENTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	17.88	18.16	24.53	28.09	25.46	19.25	29.47	19.93	18.45	18.46	18.45	18.45	1
2	17.88	18.15	25.85	28.01	25.29	20.64	31.24	19.91	18.57	18.45	18.45	18.45	2
3	17.88	18.16	25.79	27.14	25.12	23.87	31.54	19.88	19.77	18.46	18.46	18.44	3
4	17.88	18.15	25.18	25.89	25.00	24.77	31.50	19.87	19.94	18.47	18.47	17.92	4
5	17.88	18.21	24.62	25.44	24.59	24.52	31.33	19.87	19.89	18.47	18.47	18.44	5
6	17.89	18.19	24.40	25.36	23.86	24.13	30.02	19.85	19.73	18.47	18.46	18.71	6
7	17.95	18.17	24.26	25.60	23.39	24.61	28.75	19.84	19.87	18.48	18.45	18.70	7
8	17.91	18.16	24.10	26.36	23.01	25.38	28.10	19.84	19.92	18.59	18.44	18.70	8
9	17.90	18.16	23.75	26.16	22.47	25.77	27.33	19.89	19.92	18.56	18.44	18.71	9
10	17.90	18.21	23.53	24.74	21.71	26.05	26.86	19.52	19.87	18.50	18.44	18.71	10
11	18.88	18.50	23.34	24.08	20.94	26.12	26.03	19.42	19.87	18.49	18.45	18.71	11
12	18.92	19.64	23.07	23.66	19.85	26.09	25.46	19.42	19.83	18.46	18.45	18.70	12
13	18.11	20.42	22.71	23.30	19.23	25.97	25.12	19.43	19.56	18.45	18.44	18.70	13
14	17.90	22.82	22.45	23.32	19.11	25.83	24.88	19.45	19.48	18.44	18.48	18.71	14
15	17.90	23.82	22.03	24.58	19.16	25.56	24.17	19.45	19.46	18.44	18.44	18.71	15
16	17.90	26.67	21.52	27.71	19.15	24.66	23.98	18.97	19.49	18.45	18.45	18.70	16
17	19.34	27.69	21.05	29.19	19.14	23.92	23.87	19.44	19.48	18.45	18.45	18.71	17
18	19.56	28.19	20.75	31.82	19.12	23.78	23.74	19.91	19.47	18.44	18.45	18.70	18
19	19.29	28.32	20.51	32.46	19.14	24.08	23.52	19.88	19.56	18.44	18.45	18.69	19
20	18.23	28.17	19.90	32.54	19.10	24.29	23.32	19.90	19.51	18.44	18.44	18.71	20
21	18.16	28.11	20.64	32.49	19.17	24.42	22.94	19.87	19.48	18.45	18.44	18.73	21
22	18.23	27.20	20.82	31.11	19.17	24.45	22.05	19.89	19.48	18.44	18.44	18.71	22
23	18.20	25.55	22.22	28.18	19.14	24.43	21.02	19.93	19.16	18.05	18.44	18.72	23
24	18.14	25.27	23.12	27.48	19.12	24.39	20.37	18.93	19.00	17.88	18.43	18.71	24
25	18.14	25.23	23.80	27.15	19.10	24.26	20.12	19.72	18.99	17.89	18.44	18.88	25
26	18.16	24.67	24.21	26.97	19.09	23.05	20.05	19.89	18.98	17.89	18.44	18.96	26
27	18.16	24.18	24.66	26.71	19.08	21.61	20.01	19.88	18.98	18.30	18.44	18.95	27
28	18.16	23.89	24.65	26.45	19.12	20.83	19.99	19.86	18.65	18.45	18.45	19.00	28
29	18.15	23.59	25.28	26.17		21.25	19.98	19.87	18.46	18.44	18.44	18.99	29
30	18.15	23.45	27.50	25.78		25.14	19.96	18.86	18.46	18.45	18.45	18.98	30
31	18.15		28.05	25.58		27.73		18.47		18.45	18.45		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
11-19-73	0115	28.38	1-1-74	1230	28.13	1-20-74	0830	32.58	4-3-74	0445	31.57

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 34 08	121 25 22	SW 3 8N 5E	176,000	45.73	11-21-1950	JUL 21-OCT 21 MAY 24-DEC 42" MAY 43-SEPT 59	JUL 21-OCT 21 JUN 24-NOV 24 JUN 1925-DATE	1921		0.00 -3.07	USED USCGS

Station located at H Street bridge. Backwater at times affects the stage-discharge relationship. Maximum discharge of record listed is for period 1921, 1929-1932, 1934 to date. Maximum gage height listed does not necessarily indicate maximum discharge. Drainage area is 1,937 square miles.

" - Irrigation season only.

**TABLE B-II (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A81820	SCOTT CREEK AT UPPER LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	NR	2.65	14.44	8.56	8.98	13.12	14.24	8.99	8.28	6.96	5.54	1.11	1
2	NR	2.67	12.46	8.36	8.87	13.54	13.35	9.02	8.24	6.96	5.17	0.95	2
3	NR	2.70	10.06	8.34	8.76	12.11	12.02	9.02	8.21	6.92	4.83	0.67	3
4	NR	2.73	8.68	8.21	8.65	10.93	11.24	9.03	8.12	6.87	4.43	0.64	4
5	NR	2.96	8.16	8.12	8.62	10.31	10.87	9.02	8.07	6.79	3.88	0.64	5
6	NR	3.17	7.88	8.05	8.57	10.02	10.63	9.01	8.03	6.73	3.46	0.64	6
7	NR	3.56	7.70	7.96	8.53	9.95	10.46	9.00	8.05	6.71	3.40	0.64	7
8	NR	5.91	7.58	7.91	8.51	9.83	10.32	8.98	8.03	6.74	3.35	0.64	8
9	NR	6.29	7.47	7.86	8.51	9.69	10.21	8.90	8.00	6.67	3.30	0.64	9
10	1.82	7.55	7.37	7.81	8.52	9.58	10.08	8.88	7.96	6.61	3.25	0.64	10
11	1.84	8.54	7.42	7.84	8.53	9.90	9.94	8.86	7.93	6.59	3.18	0.64	11
12	1.87	9.18	7.46	8.00	8.56	10.28	9.82	8.81	7.88	6.57	3.06	0.64	12
13	1.90	8.75	7.94	8.65	8.59	10.10	9.70	8.80	7.84	6.53	2.92	0.64	13
14	1.93	8.57	8.04	10.16	8.60	9.82	9.56	8.73	7.78	6.49	2.79	0.64	14
15	1.95	8.23	7.96	13.08	8.61	9.61	9.43	8.68	7.72	6.41	2.72	0.70	15
16	1.98	9.80	7.86	18.47	8.63	9.44	9.32	8.63	7.73	6.38	2.65	0.81	16
17	2.00	9.97	7.86	17.60	8.65	9.29	9.19	8.67	7.65	6.35	2.59	0.94	17
18	2.03	9.95	7.79	13.97	8.74	9.17	9.11	8.63	7.59	6.33	2.51	0.97	18
19	2.05	8.61	7.69	12.42	10.01	9.11	9.06	8.59	7.54	6.29	2.15	1.00	19
20	2.08	8.00	7.60	11.38	9.74	9.08	9.10	8.59	7.51	6.26	2.03	1.02	20
21	2.11	7.66	8.64	10.67	9.44	9.05	9.11	8.56	7.46	6.20	1.96	1.05	21
22	2.19	7.45	9.45	10.25	9.31	9.02	9.10	8.53	7.41	6.14	1.88	1.09	22
23	2.27	7.27	8.95	10.01	9.20	9.00	9.12	8.48	7.38	6.11	1.81	1.16	23
24	2.30	7.15	8.55	9.84	9.13	9.00	9.10	8.48	7.34	6.08	1.75	1.20	24
25	2.32	7.02	8.29	9.69	9.07	9.03	9.10	8.47	7.24	6.04	1.67	1.18	25
26	2.45	6.90	8.28	9.54	9.02	9.07	9.09	8.44	7.22	6.01	1.58	1.13	26
27	2.52	6.77	9.12	9.43	9.01	9.36	9.05	8.41	7.18	5.97	1.51	1.10	27
28	2.54	6.68	9.62	9.32	10.15	9.95	9.03	8.39	7.16	5.92	1.38	1.07	28
29	2.56	6.71	9.71	9.21		12.57	9.03	8.35	7.12	5.87	1.27	1.07	29
30	2.58	10.46	9.26	9.10		17.28	9.03	8.33	7.07	5.82	1.21	1.07	30
31	2.61		8.86	9.05		14.67		8.31		5.77	1.17		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E - ESTIMATED  
 NR - NO RECORD  
 NF - NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-16-74	2045	20.39									
3-30-74	0845	17.88									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 09 32	122 55 13	SW12 15N 10W		22.14	12/23/64		NOV 59-DATE	1959		1321.2	USCGS

Station located 0.1 mi. above State Highway 29 bridge, 0.7 mi. SW of Upper Lake. Gage height reflects the elevation of Clear Lake as well as flow of Scott Creek.

**TABLE B-II (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.06	12.70	12.62	15.83	18.23	13.27	16.43	14.17	14.92	11.19	10.35	11.53	1
2	10.92	12.64	12.66	15.76	18.05	13.32	16.80	13.83	15.13	10.98	10.35	11.71	2
3	11.12	12.26	12.70	15.77	17.65	14.50	17.60	13.81	15.37	10.85	10.28	11.64	3
4	11.49	12.04	12.70	16.33	17.18	15.07	17.83	13.90	15.34	10.80	10.41	11.58	4
5	12.63	11.83	12.70	16.73	16.68	14.90	17.72	14.02	15.10	10.88	10.48	11.58	5
6	12.62	11.67	12.74	16.81	16.61	14.92	18.04	14.13	14.93	10.87	10.35	11.56	6
7	12.06	11.61	12.74	16.85	16.32	15.52	18.18	13.88	14.93	10.84	10.27	11.57	7
8	12.62	11.28	12.75	16.97	15.91	16.02	18.00	13.51	14.91	10.98	10.40	11.76	8
9	12.75	11.13	12.74	17.61	15.55	16.22	17.42	14.02	15.23	11.07	10.44	11.82	9
10	12.53	11.23	12.64	17.84	15.38	16.17	17.02	14.50	15.67	11.47	10.46	11.63	10
11	12.54	11.34	12.59	17.92	14.93	15.80	16.59	14.96	15.73	11.65	10.44	11.83	11
12	12.46	11.36	12.58	17.99	NR	15.49	16.36	15.17	14.88	11.51	10.52	12.10	12
13	12.31	11.36	12.64	17.73	NR	15.36	16.35	15.07	13.90	11.41	10.35	12.02	13
14	12.15	11.39	12.65	17.07	NR	15.18	16.39	14.90	13.66	11.51	10.28	11.93	14
15	12.03	11.41	12.58	16.41	15.07	14.86	16.23	15.04	13.14	11.37	10.43	11.88	15
16	11.74	11.42	13.00	16.67	14.95	14.35	15.88	15.39	13.76	11.04	10.77	11.85	16
17	11.68	11.43	13.32	16.70	14.52	14.15	15.53	15.44	14.38	10.86	10.92	11.88	17
18	12.15	11.48	13.33	16.76	14.09	14.03	15.30	15.35	14.34	10.72	11.08	12.28	18
19	12.42	11.50	13.37	17.51	13.57	13.92	15.29	15.24	13.81	10.53	11.17	12.94	19
20	12.63	11.67	13.40	17.99	13.38	14.00	15.29	15.08	13.20	10.52	11.11	13.37	20
21	12.69	12.03	13.43	17.90	13.42	13.93	15.11	14.62	12.50	10.71	11.06	13.52	21
22	12.28	12.41	13.69	17.79	13.57	13.82	14.58	13.67	12.12	10.76	10.96	13.51	22
23	11.90	12.48	13.83	18.40	13.67	13.77	14.19	12.77	11.93	10.53	11.05	13.54	23
24	11.67	12.28	13.83	18.53	13.63	13.69	13.46	12.37	11.98	10.41	11.07	13.35	24
25	12.06	12.10	13.75	18.83	13.54	13.77	13.17	12.20	11.88	10.52	11.27	13.40	25
26	12.37	12.17	13.68	19.04	13.58	13.84	12.97	12.07	11.92	10.56	11.39	13.52	26
27	12.64	12.30	13.79	19.08	13.43	14.87	12.87	11.97	11.73	10.64	11.31	13.53	27
28	12.69	12.49	14.73	18.79	13.41	15.49	13.54	11.79	11.52	10.58	11.18	13.57	28
29	12.30	12.62	16.38	18.41		15.94	13.98	12.90	11.27	10.56	11.28	13.56	29
30	12.01	12.63	16.29	18.80		15.91	14.12	13.74	11.18	10.53	11.33	13.67	30
31	12.53		15.93	18.65		16.15		14.53		10.39	11.40		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
1-27-74	0700	19.16									

E -- ESTIMATED  
 NR -- NO RECORD  
 NF -- NO FLOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 40 34	121 15 55	NW 13 3S 6E	79,000	32.81	12-9-1950	JUL 22-DEC 23 8	JUL 22-DEC 23 8	1931	1959	5.06	USCGS
						JAN 24-FEB 25	JAN 24-FEB 25	1959		0.00	USCGS
						JUN 25-OCT 28 8	JUN 25-OCT 28 8	1959		3.3	USED
						MAY 29-DATE	MAY 29-DATE				

Station located on left bank 12 feet downstream from Durham Ferry highway bridge, 2.6 miles downstream from Stanislaus River, and 3.2 miles northeast of Vernalis. Maximum discharge listed at site then in use and present datum. Records furnished by U. S. Geological Survey. Drainage area is 13,540 square miles.

8 - Irrigation season only.

**TABLE B-II (CONT.)**  
**DAILY MEAN GAGE HEIGHT**  
 (IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	G32100	EAGLE LAKE NEAR SUSANVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	9.98	9.88	10.23	10.46	11.26	11.47	12.35	12.92	12.42 E	12.42 E	12.27	11.81	1
2	9.97	9.86	10.23	10.43	11.26	11.56	12.42	12.93	12.42 E	12.42 E	12.26	11.80	2
3	9.94	9.86	10.23	10.43	11.26	11.59	12.45	12.94	12.42 E	12.42 E	12.25	11.79	3
4	9.93	9.81	10.24	10.44	11.27	11.58	12.48	12.94	12.42 E	12.42 E	12.24	11.78	4
5	9.92	9.82	10.24	10.45	11.27	11.58	12.49	12.94	12.42 E	12.42 E	12.24	11.76	5
6	9.88	9.87	10.24	10.47	11.26	11.57	12.53	12.96	12.42 E	12.42 E	12.23	11.75	6
7	9.91	9.85	10.24	10.48	11.26	11.60	12.55	12.97	12.42 E	12.42 E	12.21	11.73	7
8	9.92	9.86	10.25	10.48	11.26	11.62	12.53	12.98	12.42 E	12.42 E	12.19	11.71	8
9	9.91	9.88	10.25	10.49	11.26	11.61	12.59	12.99	12.42 E	12.42 E	12.17	11.70	9
10	9.90	9.91	10.26	10.49	11.27	11.61	12.62	12.99	12.42 E	12.42 E	12.15	11.69	10
11	9.89	9.95	10.27	10.49	11.26	11.61	12.63	12.99	12.42 E	12.42 E	12.14	11.66	11
12	9.89	10.00	10.27	10.50	11.26	11.60	12.64	13.00	12.42 E	12.42 E	12.10	11.64	12
13	9.89	10.03	10.31	10.53	11.27	11.63	12.65	12.98	12.42 E	12.42 E	12.08	11.61	13
14	9.88	10.04	10.32	10.55	11.28	11.64	12.66	12.98	12.42 E	12.42 E	12.05	11.59	14
15	9.88	10.04	10.32	10.62	11.28	11.65	12.69	12.98	12.42 E	12.42 E	12.04	11.58	15
16	9.88	10.07	10.31	10.70	11.29	11.67	12.71	12.97	12.42 E	12.42 E	12.02	11.57	16
17	9.88	10.10	10.35	10.79	11.29	11.70	12.73	12.96	12.42 E	12.42 E	12.00	11.57	17
18	9.87	10.15	10.35	10.88	11.28	11.74	12.76	12.98	12.42 E	12.41	11.98	11.56	18
19	9.85	10.13	10.34	10.99	11.33	11.77	12.78	12.97	12.42 E	12.40	11.96	11.56	19
20	9.85	10.14	10.34	11.05	11.32	11.79	12.79	12.97	12.42 E	12.39	11.93	11.55	20
21	9.82	10.14	10.37	11.10	11.31	11.82	12.80	12.97	12.42 E	12.37	11.93	11.55	21
22	9.83	10.13	10.39	11.13	11.33	11.84	12.81	12.98	12.42 E	12.37	11.92	11.54	22
23	9.88	10.13	10.39	11.15	11.32	11.85	12.83	12.98	12.42 E	12.36	11.91	11.54	23
24	9.91	10.14	10.39	11.18	11.32	11.87	12.85	12.98	12.42 E	12.35	11.90	11.53	24
25	9.90	10.13	10.39	11.20	11.32	11.89	12.86	12.79	12.42 E	12.34	11.90	11.52	25
26	9.89	10.13	10.39	11.21	11.31	11.91	12.87	12.46	12.42 E	12.34	11.88	11.51	26
27	9.89	10.12	10.40	11.21	11.31	11.92	12.89	12.43	12.42 E	12.32	11.88	11.48	27
28	9.89	10.11	10.42	11.22	11.33	11.97	12.90	12.42 E	12.42 E	12.31	11.86	11.47	28
29	9.88	10.12	10.44	11.23		12.05	12.90	12.42 E	12.42 E	12.30	11.85	11.46	29
30	9.87	10.14	10.43	11.24		12.17	12.91	12.42 E	12.42 E	12.29	11.84	11.45	30
31	9.88		10.44	11.24		12.27		12.42 E		12.28	11.83		31

**MAXIMUM INSTANTANEOUS GAGE HEIGHTS**

E — ESTIMATED  
 NR — NO RECORD  
 NF — NO FLOW

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
5-12-74	1030	13.09									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 36 45	120 43 34	SW22 32N 11E		13.25	5/12/74		OCT 56-DATE	1956		5095.06	USCGS
Station located on east shore, 14 mi. NW of Susanville.											

## TABLE B-12

### DAILY TIDES

This table shows the water surface elevations for the daily high and low tides or the daily maximum and minimum water surface elevations for days where normal tide patterns did not occur.

The reported elevations are referenced to USC&GS mean sea level datum established at the Golden Gate in 1929. Water surface elevation at each station referenced to this datum is obtained by subtracting the zero of the gage, shown under "Datum of Gage", from the reported elevations.

#### Example:

1. Pages 164 and 165 "Sacramento River near Freeport". From Page 165 the zero of the gage since 1964 = 0.00 USC&GS datum. Elevations referenced to mean sea level of the Golden Gate are as reported.
2. Pages 166 and 167. "Sacramento River at Snodgrass Slough". From Page 167 the zero of the gage since 1964 = -3.00' USC&GS datum. Elevations referenced to mean sea level at the Golden Gate are obtained by subtracting 3.00 from the reported values.

TABLE R-12 (CONTINUED)

## DAILY TIDES

891850 SACRAMENTO RIVER NEAR FREEPORT  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	NR	NR	2.77 3.42	3.78 3.95	15.94A	17.28A	18.89A	18.75A	17.38A	17.21A	8.80A	9.36A	01
02	3.04 3.28	3.68 4.23	2.59 3.29	3.60 3.80	17.29A	17.69A	18.80A	18.58A	17.23A	17.00A	9.40A	13.93A	02
03	2.78 3.26	3.46 4.07	2.55 2.99	3.53	17.62A	17.50A	18.58A	17.94A	17.03A	16.87A	13.98A	16.46A	03
04	2.70 3.30	3.50 3.95	3.40 3.47	2.34 2.74	17.53A	17.00A	17.94A	17.28A	16.94A	16.76A	16.61A	16.43A	04
05	2.68 3.32	3.64	3.19 3.79	2.33 3.08	17.01A	16.69A	17.29A	17.05A	16.77A	16.31A	16.43A	16.10A	05
06	4.17 4.15	2.99 3.51	3.66 4.15	2.88 2.95	16.71A	16.52A	17.03A	17.18A	16.30A	15.81A	16.09A	15.62A	06
07	4.29 4.15	3.10 3.31	3.56 4.33	2.89	16.55A	16.42A	17.00A	17.31A	15.81A	15.46A	15.56A	15.99A	07
08	4.11 4.06	2.96 3.13	3.07 3.13	3.72 4.59	16.42A	16.26A	17.50 17.56	17.46	15.44A	15.02A	15.96A	16.33A	08
09	4.04 4.01	2.96	3.40 3.67	4.10 5.14	16.26A	16.00A	17.39A	17.08A	15.01A	14.34A	16.32A	16.86A	09
10	3.09 3.04	3.99 4.20	3.99 4.32	4.59 5.71	16.00A	15.85A	17.06A	16.03A	14.33A	13.37A	16.86A	17.09A	10
11	3.07 3.43	4.14 4.67	4.59 5.22	5.31 6.94	15.86A	15.71A	16.02A	15.55A	13.36A	12.17A	17.17A	17.04A	11
12	3.49 3.58	4.31 4.83	6.75A	10.79A	15.70A	15.37A	15.54A	15.03A	12.15A	10.51A	17.14A	16.93A	12
13	3.39 3.18	3.99 4.51	10.80A	12.78A	15.35A	15.07A	15.02A	14.74A	10.49A	9.23A	17.04A	16.92A	13
14	2.93 3.08	3.71 4.62	12.79A	15.01A	15.06A	14.78A	14.65A	14.98A	9.12A	9.49A	16.97A	16.74A	14
15	2.96 3.25	3.76 4.76	15.03A	16.07A	14.78A	14.23A	14.98A	17.09A	9.23A	9.62A	16.75A	16.34A	15
16	2.95 3.10	3.61 4.55	16.07A	18.01A	14.22A	13.68A	17.12A	18.87A	9.29A	9.76A	16.33A	15.48A	16
17	3.04 3.68	3.97 4.90	18.00A	18.63A	13.67A	13.17A	18.88A	20.46A	9.67A	9.27A	15.47A	15.19A	17
18	3.46 3.69	4.12 4.65	18.64A	19.06A	13.16A	12.68A	20.48A	21.88A	9.23 9.14	9.34 9.42	15.24A	15.50A	18
19	3.27 3.55	4.14 4.48	19.10A	18.89A	12.67A	12.36A	21.88A	22.33A	8.95 9.04	9.22 9.37	15.50A	15.81A	19
20	2.83 3.00	3.85	18.96A	18.77A	12.36A	12.08A	22.37A	22.17A	8.95 9.14	9.20 9.58	15.81A	16.07A	20
21	3.98 4.00	2.67 2.94	18.91A	18.70A	12.09A	12.65A	22.29A	22.11A	9.46 9.72	9.75 10.13	16.04A	16.14A	21
22	3.92 4.49	2.88 3.55	18.71A	17.78A	12.47A	12.99A	22.11A	20.79A	9.89 9.82	10.02 9.97	16.17A	16.07A	22
23	4.79 4.53	3.47	17.77A	17.02A	13.00A	14.28A	20.74A	19.49A	9.67 9.51	9.80 9.66	16.20A	16.06A	23
24	3.16 3.01	3.89 4.33	16.96A	17.08A	14.29A	15.07A	19.48A	19.08A	9.32 9.09	9.48 9.23	16.16A	15.98A	24
25	3.05 3.13	3.85 4.39	16.97A	17.09A	15.08A	15.80A	19.08A	18.85A	8.96 8.91	9.26 9.09	16.03A	15.72A	25
26	3.05 3.18	3.80 4.45	17.02A	16.55A	15.79A	16.11A	18.84A	18.63A	8.87 8.79	9.21 8.94	15.72A	14.46A	26
27	2.95 3.00	3.61 4.22	16.54A	16.30A	16.11A	16.73A	18.64A	18.36A	8.66 8.48	9.02 8.56	14.43A	13.06A	27
28	2.74 3.01	3.50 4.27	16.29A	16.00A	16.82A	16.66A	18.35A	18.11A	8.38 8.53	9.03	13.05A	12.50A	28
29	2.64 2.90	3.31 4.01	15.99A	15.78A	16.81A	17.27A	18.11A	17.82A			12.59A	13.45A	29
30	2.55 2.97	3.30 3.98	15.61A	15.93A	17.27A	18.71A	17.82A	17.50A			13.47A	17.01A	30
31	2.56 3.19	3.44 4.09			18.68A	18.80A	17.50A	17.38A			17.05A	19.13A	31
MAXIMUM	NR		19.10		18.80		22.37		17.38		19.13		MAXIMUM
MINIMUM	NR		2.33		12.08		14.65		8.38		8.80		MINIMUM

NR - NO RECORD

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 38 28 23, LONG. 121 31 58, SW SEC. 10, T7N, R4E,  
10.7 MILES BELOW SACRAMENTO, 1.9 MILES NORTHWEST OF FREEPORT.  
MAXIMUM GAGE HEIGHT LISTED AT PRESENT DATUM.

PERIOD OF RECORD: AUG 1955 TO DATE

TABLE 8-12 (CONTINUED)

## DAILY TIDES

R91850 SACRAMENTO RIVER NEAR FREEPORT  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	19.15A	20.87A	8.21 8.15	7.88 7.58	6.80 6.09	5.79 5.80	5.49 4.30	3.58 3.90	5.97 4.99	4.54	5.37 5.28	6.13 5.88	01
02	20.89A	21.79A	7.97 7.37	7.20 6.74	6.83 6.18	5.77 6.00	5.39 4.21	3.43 3.87	4.67 4.52	5.79 5.18	5.40 5.32	6.09 6.02	02
03	21.91A	21.76A	7.30 6.72	6.43 6.15	7.08 6.72	6.37	5.33 4.38	3.53	4.82 4.65	5.97 5.29	5.51 5.44	6.11 6.12	03
04	21.86A	21.72A	7.03 6.19	5.84	6.49 6.33	7.27 6.67	3.98 3.51	5.32 4.30	4.84 4.64	5.82 5.39	5.47 5.23	5.91 5.90	04
05	21.85 21.75	21.67	5.67 5.46	6.69 5.93	6.48 6.27	7.16 6.57	3.88 3.46	5.18 4.51	4.84 4.69	5.69 5.39	5.18 5.43	5.74 6.22	05
06	21.43A	20.50A	5.51 5.10	6.48 5.59	6.40 5.92	7.00 6.34	4.03 3.53	5.20 4.53	4.91 4.65	5.55 5.50	5.62 5.63	5.97 6.38	06
07	20.48A	19.54A	5.10 4.72	6.14 5.32	6.15 5.71	6.80 6.14	3.94 3.42	4.94 4.40	4.93 4.59	5.45 5.62	5.69 5.82	6.06 6.64	07
08	19.54A	19.17A	5.01 5.30	6.22 6.08	5.96 5.53	6.51 6.13	3.75 3.51	4.56 4.63	4.94 4.60	5.25 5.67	5.83 5.94	6.09 6.78	08
09	19.17A	18.55A	5.98 6.05	6.88 6.59	5.86 5.29	6.35 5.97	4.20 4.22	4.94 5.32	4.95 4.66	5.31 5.92	5.91 6.00	6.13 6.75	09
10	18.54A	18.20A	6.42 5.80	6.81 6.23	5.68 5.05	5.99 5.86	4.96 4.87	5.44 5.84	4.98 4.79	5.14 6.04	5.91 6.06	6.18	10
11	18.19A	17.44A	6.11 5.74	6.52	5.49 4.93	5.74	5.43 5.32	5.66 6.21	5.00 5.00	5.17	6.80 6.24	5.95 6.06	11
12	17.44A	17.07A	6.43 6.84	6.42 6.34	5.86 5.43	5.34 4.76	5.62 5.35	5.68	6.30 5.49	5.18 5.32	6.98 6.61	6.11 6.36	12
13	17.08A	16.78A	6.90 6.80	6.75 6.33	5.82 5.13	5.07 4.57	5.46 5.53	5.32	6.44 5.53	5.28 5.29	7.20 6.64	6.24 6.28	13
14	16.80A	16.56A	6.85 6.80	6.71 6.58	5.72 4.83	4.73 4.49	6.29 5.42	5.31 5.24	6.34 5.46	5.06 5.22	7.04 6.56	6.11	14
15	16.56A	16.14A	7.20 6.92	6.89 6.59	5.76 5.10	4.79 4.97	6.36 5.44	5.19 5.28	6.40 5.60	5.16 5.32	6.02 5.95	6.75 6.53	15
16	16.17A	16.02A	7.10A	5.95A	6.22 5.59	5.26 5.45	6.35 5.38	5.07 5.23	6.46 5.68	5.27	5.94 5.93	6.62 6.57	16
17	16.05A	15.89A	6.62 6.20	5.93 6.07	6.61 5.63	5.38 5.29	6.44 5.46	5.09 5.20	5.28 5.15	6.29 5.67	5.88 5.84	6.46 6.57	17
18	15.94A	15.72A	6.84 6.49	6.31 6.31	6.45 5.35	4.84 5.05	6.39 5.37	4.97 5.07	5.20 5.15	6.13 5.89	5.87 5.91	6.43 6.69	18
19	15.73A	15.49A	6.38A	7.07A	6.52 5.50	5.00 5.25	6.28 5.34	4.87	5.34 5.14	6.08 5.78	5.90 5.82	6.35 6.65	19
20	15.53A	15.25A	7.33 6.85	6.61 6.72	6.50 5.69	5.16	4.93 4.80	6.16 5.41	5.17 5.06	5.77 5.89	5.68 5.55	6.02 6.40	20
21	15.27A	14.62A	7.46 6.87	6.64	5.43 5.25	6.62 5.83	4.89 4.66	5.96 5.46	5.21 5.06	5.71 5.98	5.36 5.29	5.70 6.11	21
22	14.62A	13.28A	6.69 6.53	7.42 6.82	5.50 5.31	6.57 6.00	4.87 4.58	5.74 5.49	5.24 5.10	5.65 6.05	5.09 5.19	5.48 5.96	22
23	13.25A	11.63A	6.62 6.11	7.37 6.37	5.54 5.04	6.32 5.69	4.77 4.29	5.38 5.39	5.23 5.12	5.51 6.11	4.94 5.11	5.35	23
24	11.61A	10.37A	6.85 5.07	6.74 5.45	5.07 4.61	5.76 5.45	4.51 4.14	5.03 5.38	5.26 5.29	5.55	5.79 5.37	4.79 5.11	24
25	10.17 9.56	10.33 9.61	5.13 5.17	6.15 5.79	4.72 4.08	5.17 5.11	4.33 4.00	4.67 5.48	6.31 5.74	5.42 5.53	5.75 5.62	4.94 5.28	25
26	9.35 8.88	9.62 8.96	5.60 5.36	6.31 6.03	4.18 3.61	4.50	4.36 4.32	4.74	6.42 5.72	5.45 5.49	5.83 5.38	4.82 4.97	26
27	8.76 8.31	9.01	5.77 5.57	6.33	4.99 4.07	3.82 3.39	5.79 4.91	4.58 4.55	6.30 5.82	5.38 5.63	5.67 5.31	4.69 4.83	27
28	8.48 8.50	8.28 7.80	6.40 6.35	5.99 5.77	4.91 3.72	3.41 3.26	5.85 5.01	4.52 4.80	6.39 5.64	5.43 5.57	5.52 5.41	4.69	28
29	8.07 8.04	7.82 7.56	6.62 6.05	5.93 5.47	4.99 4.05	3.54 3.76	6.07 5.08	4.70 4.84	6.33 5.88	5.44 5.58	4.81 4.59	5.45 5.26	29
30	8.00 8.04	7.78 7.64	6.42 5.89	5.70 5.45	5.48 4.52	3.92 4.13	5.97 5.16	4.65 4.91	6.32 5.94	5.47	4.56 4.45	5.16 5.20	30
31			6.47 5.96	5.64 5.66			6.04 5.14	4.69 4.87	5.60 5.34	6.29 5.81			31
MAXIMUM	21.91		8.21		7.27		6.44		6.46		7.20		MAXIMUM
MINIMUM	7.56		4.72		3.26		3.42		4.52		4.45		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

MAXIMUM GAGE HEIGHT OF RECORD: 23.9 - 12/23/55

ZERO OF GAGE: 1955 TO 1956 4.93 USCGS  
1956 0.00 USCGS  
1964 -0.43 USCGS  
1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

891750 SACRAMENTO RIVER AT SNODGRASS SLOUGH  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	4.82 5.27	6.11 6.97	4.39 5.40	6.11 6.25	14.11A 15.06A	16.27 16.23	16.61 16.31	15.30 15.48	15.23 15.09	8.99 8.78	10.01		01
02	4.61 5.13	5.81 6.54	4.19 5.21	5.86 6.05	15.06A 15.53A	16.23 16.06	16.51 16.21	15.16 15.31	15.08 14.90	9.51A 9.51A	12.42A		02
03	4.34 5.14	5.58 6.33	4.19 4.85	5.82 5.57	15.43 15.49	15.27 15.25	16.17 16.26	16.02 15.54	15.02 15.19	14.92 14.78	12.47A 14.42A		03
04	4.24 5.19	5.63 6.17	3.95 4.52	5.77 4.52	15.34 15.40	15.21 14.88	15.65 15.78	15.47 15.08	14.93 15.20	14.82 14.82	14.83A 14.44A		04
05	4.25 5.20	5.85 6.45	5.33 6.11	3.93 4.77	14.96 15.03	14.75 14.58	15.27 15.56	15.11 14.92	14.72 14.62	14.85 14.89	14.60 14.66	14.38 14.18	05
06	4.60 5.38	6.45 6.45	5.81 6.50	4.50 4.56	14.71 14.89	14.56 14.43	15.13 15.51	15.00 14.91	14.34 14.15	14.45 14.46	14.39 14.41	14.06 14.06	06
07	6.60 6.42	4.71 5.08	5.69 6.71	4.51 4.65	14.59 14.83	14.44 14.44	14.91 14.98	15.14 15.43	13.93 13.82	14.13 14.15	13.82 13.79	14.11 14.39	07
08	6.42 6.39	4.59 4.83	5.85 6.89	4.70 4.77	14.35 14.34	14.52 14.75	15.05 15.31	15.48 15.77	13.64 13.50	13.87 13.76	14.08 14.18	14.43 14.57	08
09	6.35 6.35	4.59 4.73	6.07 7.32	5.12 5.12	14.23 14.19	14.40 14.54	15.16 15.17	15.44 15.59	13.25 13.03	13.52 13.22	14.33 14.53	14.73 14.89	09
10	6.24 6.52	4.65 4.67	5.15 5.54	6.34 7.68	14.00 13.99	14.17 14.43	14.80 14.42	14.96 14.74	12.69 12.29	12.97 12.41	14.73 14.84	15.16 15.12	10
11	6.30 6.93	4.93 4.93	5.49 6.24	6.76 8.58	13.87 14.00	14.12 14.45	13.99 13.83	14.26 14.15	11.91 11.45	12.28 11.51	14.89 14.91	15.30 15.15	11
12	4.92 5.10	6.41 7.09	7.01 8.84	8.98 10.57	13.78 13.73	13.98 14.09	13.61 13.50	13.97 13.69	10.85 10.13	11.28 10.24	14.93 14.89	15.30 15.06	12
13	4.84 4.88	6.13 6.94	9.92 10.64	10.72 11.88	13.48 13.48	13.76 13.76	13.22 13.14	13.59 13.27	9.61 8.93	10.21 8.93	14.88 14.81	15.16 14.96	13
14	4.51 4.87	5.96 7.07	11.48A 13.26A	13.26A 13.24	13.23 13.42	13.52 13.42	13.00A 13.44A	13.44A 13.44A	9.14 9.71	8.87 8.75	14.86 14.69	15.06 14.79	14
15	4.52 5.07	5.99 7.20	13.22A 14.23A	14.23A 12.78	12.93 12.87	13.18 12.87	13.30A 14.76A	14.76A 14.76A	9.14 9.77	9.01 8.82	14.68 14.41	14.79 14.46	15
16	4.55 4.98	5.84 6.99	14.13 15.27	15.28 15.76	12.47 12.33	12.80 12.39	14.79A 16.40A	16.40A 16.40A	9.29 9.98	9.16 8.94	14.24 13.71	14.25 14.25	16
17	4.46 5.31	5.96 7.14	15.63A 16.39A	16.39A 11.90	12.04 11.90	12.54 11.90	16.60 17.04	16.58 16.93	9.44 9.85	9.16 8.82	13.79 13.66	13.60 13.42	17
18	4.81 5.34	6.13 6.84	16.17 16.41	16.71 16.41	11.96 12.14	11.65 11.45	17.45A 18.81A	18.81A 18.81A	9.35 9.66	8.95 8.95	13.64 13.75	13.58 13.63	18
19	4.66 5.25	6.23 6.84	16.63 16.73	16.42 16.28	11.55 11.78	11.29 11.14	18.67A 19.40A	19.40A 19.40A	8.60 9.01	9.37 9.80	13.90 14.07	13.84 13.92	19
20	4.47 4.85	6.22 6.22	16.46 16.67	16.24 16.14	11.30 11.61	11.10 10.90	19.46A 18.93A	18.93A 18.93A	8.62 8.80	9.24 9.66	14.21 14.33	14.07 14.16	20
21	6.40 6.44	4.36 4.75	16.41 16.68	16.20 16.07	11.31 12.08	11.25 12.08	18.92A 19.39A	19.39A 19.39A	8.88 9.19	9.56 10.14	14.41 14.40	14.19 14.17	21
22	6.33 6.88	4.54 5.28	16.35 16.32	16.05 16.05	11.61 12.08	11.46 11.61	18.94A 18.05A	18.05A 18.05A	9.28 9.31	9.85 9.88	14.41 14.42	14.19 14.20	22
23	7.17 6.92	5.20 4.77	15.53 15.41	15.14 15.14	12.08 12.81	12.05 12.05	18.00A 17.02A	17.02A 17.02A	9.10 9.03	9.67 9.61	14.47 14.37	14.17 14.17	23
24	6.09 6.67	4.62 4.62	14.82 14.91	15.09 15.18	12.61A 13.44A	13.44A 13.44A	16.86 16.82	17.01 16.96	8.85 8.72	9.54 9.29	14.17 14.11	14.46 14.30	24
25	4.59 4.72	6.01 6.71	14.78 14.90	15.01 15.22	13.25A 14.06A	14.06A 14.06A	16.77A 16.49A	16.49A 16.49A	8.59 8.60	9.48 9.21	14.11 14.05	14.38 14.19	25
26	4.52 4.79	5.90 6.78	14.84 14.81	15.04 14.98	13.83 14.01	14.11 14.36	16.41 16.39	16.57 16.47	8.57 8.57	9.55 9.12	13.89 13.24	14.08 13.31	26
27	4.43 4.69	5.72 6.55	14.42 14.43	14.60 14.60	14.12A 14.71A	14.71A 14.71A	16.36A 16.04A	16.04A 16.04A	8.49 8.34	9.49 8.78	12.91 12.14	13.15 12.22	27
28	4.23 4.79	5.66 6.67	14.20 14.18	14.34 14.34	14.60A 14.90A	14.90A 14.90A	15.95 15.90	16.17 15.95	8.41 8.55	9.68 9.38	11.81 11.33	12.18 11.55	28
29	4.21 4.68	5.47 6.37	13.96 13.97	14.14 14.13	14.69A 15.18A	15.18A 15.18A	15.95A 15.61A	15.61A 15.61A			11.45 11.64	12.08 12.08	29
30	4.08 4.80	5.45 6.32	13.81 13.92	14.04 14.20	15.08A 16.26A	16.26A 16.26A	15.52 15.36	15.71 15.39			12.22A 14.90A	14.90A 14.90A	30
31	4.11 5.11	5.65 6.43			16.19A 16.49A	16.49A 16.49A	15.27 15.22	15.53 15.53			14.93A 16.64A	16.64A 16.64A	31
MAXIMUM	7.20		16.73		16.49		19.46		15.48		16.64		MAXIMUM
MINIMUM	4.08		3.93		10.90		13.00		8.34		8.78		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 38 21 02, LONG. 121 31 56, SW SEC 22, T6N, R4E,  
0.2 MILE ABOVE HEAD OF SLOUGH (LEVEED OFF FROM RIVER),  
WEST OF STATE HWY 160, 2.5 MILES NE OF COURTLAND. AT  
TIMES TIDAL FLUCTUATION IS INFLUENCED BY OPERATION OF  
THE DELTA CROSS CHANNEL GATES.

PERIOD OF RECORD: AUG 1939 TO DATE



TABLE B-12 (CONTINUED)

## DAILY TIDES

R91750 SACRAMENTO RIVER AT SNODGRASS SLOUGH  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	16.66A	18.07A	8.91 8.78	7.99 7.75	8.43 7.32	6.45 6.64	7.84 6.46	5.03 5.73	7.97 6.67	5.50 5.93	7.72 7.37	6.05	01
02	18.10A	18.87A	8.86 8.23	7.53 7.21	8.47 7.41	6.40 6.79	7.80 6.38	4.91 5.71	7.77 6.94	5.53 6.13	6.25 6.11	7.64 7.55	02
03	19.06 19.08	18.88 18.77	8.54 7.87	6.99 6.91	8.53 7.70	6.69 7.17	7.75 6.55	5.01 5.80	7.91 7.08	5.75	6.33 6.21	7.59 7.67	03
04	19.05 18.95	18.74 18.72	8.58 7.46	6.48 6.49	8.67 7.64	6.68 7.09	7.69 6.42	4.94 5.62	6.11 5.71	7.77 7.12	6.27 6.08	7.39 7.52	04
05	19.09 19.02	18.73	8.36 7.36	6.21 6.50	8.39 7.60	6.58	7.54 6.69	4.91	6.04 5.81	7.58 7.17	6.03 6.11	7.09 7.69	05
06	18.58 18.11	18.75 18.21	8.24 7.20	5.98	7.12 6.33	8.35 7.48	5.82 4.99	7.53 6.70	6.14 5.73	7.33 7.31	6.24 6.30	7.14 7.43	06
07	17.83 17.31	17.99 17.38	6.32 5.70	8.03 6.98	6.98 6.18	8.18 7.36	5.67 4.89	7.23 6.60	6.12 5.81	7.19 7.47	6.26 6.59	7.17 8.11	07
08	17.07 16.87	17.26 17.02	6.27 6.00	8.02 7.43	6.81 6.01	7.91 7.50	5.43 4.82	6.76 6.69	6.13 5.72	6.93 7.55	6.40 6.75	7.12 8.21	08
09	16.78 16.41	16.92 16.47	6.92 6.47	8.34 7.71	6.85 5.93	7.78 7.43	5.63 5.21	6.79 7.05	6.14 5.78	6.98 7.83	6.38 6.78	7.12 8.17	09
10	16.25 15.98	16.34 16.06	7.19 6.21	8.06 7.34	6.72 5.79	7.42 7.45	6.04 5.62	6.86 7.41	6.05 5.95	6.63 7.94	6.34 6.83	7.19 8.21	10
11	16.00A	15.41A	6.94 6.10	7.69 7.44	6.61 5.77	7.20 7.53	6.16 5.81	6.62 7.59	5.98 6.20	6.60 8.18	6.35 6.74	7.27	11
12	15.40A	15.04A	7.15 6.49	7.80 7.74	6.47 5.67	6.84 7.56	6.19 5.91	6.52 7.66	6.07 6.54	6.94 8.36	8.30 7.79	6.54 7.09	12
13	15.10A	14.77A	7.20 6.41	7.36	6.25 5.64	6.57	6.02 6.01	6.43	6.05 6.46	6.99	8.71 7.90	6.80 7.00	13
14	14.87A	14.63A	7.62 7.30	7.05 6.62	7.60 6.28	5.85 5.62	7.84 6.48	5.95 6.14	8.17 6.87	5.84 6.27	8.52 7.85	6.66 6.70	14
15	14.72A	14.26A	7.99 7.37	7.15 6.70	7.64 6.45	5.72 6.00	8.07 6.72	5.91 6.36	8.21 7.08	5.93 6.32	8.20 7.90	6.51	15
16	14.39A	14.15A	7.98 7.04	6.85 6.45	7.94 6.80	5.95 6.34	8.16 6.74	5.81 6.32	8.25 7.14	5.97 6.21	6.57 6.52	8.04 7.99	16
17	14.31 14.26	14.18 14.08	7.90 6.98	6.41 6.45	8.29 7.02	6.12 6.47	8.31 6.92	5.84 6.33	8.04 7.17	5.90	6.47 6.42	7.80 8.02	17
18	14.28 14.12	14.04 13.93	7.90 7.14	6.50 6.65	8.44 7.05	5.87 6.37	8.31 6.89	5.75 6.18	6.08 5.89	7.82 7.44	6.44 6.52	7.72 8.19	18
19	14.10 13.90	13.80 13.75	8.15 7.34	6.59 6.88	8.51 7.06	5.86 6.42	8.22 6.92	5.71 6.03	6.16 5.83	7.67 7.30	6.53 6.56	7.65 8.24	19
20	13.99 13.74	13.63 13.56	8.32 7.41	6.65 6.98	8.40 7.14	5.87	8.10 7.08	5.70	5.91 5.72	7.24 7.45	6.38 6.43	7.35 8.06	20
21	13.81 13.42	13.31	8.49 7.48	6.67 7.05	8.47 5.98	8.46 7.34	5.99 5.60	7.88 7.23	5.95 5.77	7.11 7.59	6.14 6.32	7.09 7.82	21
22	13.10 12.48	13.34 12.63	8.58 7.58	6.65	8.56 6.06	8.39 7.54	5.97 5.52	7.62 7.32	5.97 5.84	6.97 7.68	5.97 6.38	6.98 7.69	22
23	12.08 11.26	12.39 11.44	7.11 6.46	8.65 7.44	6.55 5.85	8.06 7.33	5.90 5.35	7.23 7.36	5.94 5.92	6.76 7.75	5.85 6.36	6.90 7.56	23
24	10.78 10.01	11.31 10.38	6.83 5.84	8.30 6.96	6.12 5.48	7.49 7.24	5.67 5.26	6.83 7.42	5.95 6.21	6.81 8.01	5.75 6.37	6.99	24
25	9.82 9.16	10.54 9.70	6.20 5.69	7.80 7.05	5.87 5.08	6.92 7.05	5.49 5.20	6.43 7.58	6.14 6.53	7.04 8.00	7.53 7.26	5.89 6.50	25
26	9.21 8.60	10.03 9.16	6.39 5.82	7.71 7.33	5.43 4.80	6.25 7.11	5.57 5.67	6.51 7.91	6.14 6.44	6.99	7.52 7.03	5.75 6.13	26
27	8.75 8.13	9.49 8.84	6.53 6.07	7.68 7.77	5.14 4.73	5.87	5.69 5.85	6.56	7.90 7.16	6.08 6.59	7.44 7.02	5.70 5.99	27
28	8.43 7.74	9.09	6.78 6.26	7.56 8.00	7.14 5.67	4.84 4.81	7.88 6.74	5.58 6.23	7.98 7.15	6.07 6.50	7.30 7.16	5.72 5.93	28
29	8.64 8.66	8.05 7.51	6.55 5.99	7.12	7.29 5.98	4.88 5.36	8.09 6.80	5.85 6.26	7.84 7.19	6.04 6.45	7.22 7.03	5.65 5.60	29
30	8.62 8.62	7.93 7.64	7.84 7.03	6.32 6.15	7.79 6.55	5.38 5.82	8.00 6.90	5.76 6.33	7.83 7.25	6.07 6.40	6.87 6.97	5.49	30
31			8.07 7.17	6.30 6.46			8.05 6.88	5.78 6.24	7.79 7.24	6.03 6.26			31
MAXIMUM	19.09		8.91		8.67		8.31		8.30		8.71		MAXIMUM
MINIMUM	7.51		5.69		4.73		4.82		5.50		5.49		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

MAXIMUM GAGE HEIGHT OF RECORD: 20.57 - 12/25/64

ZERO OF GAGE: 1939 -3.02 USCGS  
1964 -3.40 USCGS  
1964 TO DATE -3.00 USCGS

TABLE B-12 (CONTINUED)

## DAILY TIDES

891650 SACRAMENTO RIVER AT WALNUT GROVE  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	0.88 1.63	2.84 3.77	0.57 1.90	2.93 3.05	6.98 7.44	7.77 7.68	8.36 8.33	9.21 8.52	7.79 7.59	8.45	4.23 3.69	5.74	01
02	0.71 1.53	2.54 3.34	0.32 1.67	2.66 2.81	7.46 7.84	8.15 7.99	8.37 8.16	9.06	7.82 8.34	7.67 7.40	4.88 6.45	4.58 5.44	02
03	0.43 1.61	2.32 3.13	0.33 1.22	2.63 2.31	7.62 7.65	8.25 7.90	8.46 9.13	8.27 7.86	7.77 8.31	7.57 7.33	6.26A 7.33	7.60A	03
04	0.33 1.65	2.38 2.95	0.09 0.82	2.59 2.06	7.61 7.44	8.36	8.25 8.88	8.01 7.56	7.79 8.44	7.51 7.33	7.50 8.03	7.33 7.08	04
05	0.36 1.63	2.64 3.24	0.11 0.99	2.89	7.71 8.18	7.33 7.18	8.13 8.93	7.87 7.54	7.82 8.25	7.36	7.67 8.07	7.17 6.96	05
06	0.73 1.71	3.22	2.52 3.27	0.67 0.71	7.58 8.12	7.18 7.05	8.11 8.91	7.73 7.51	7.05 6.97	7.52 7.96	7.71 8.07	6.99 6.80	06
07	3.39 3.20	0.87 1.35	2.40 3.53	0.71 0.75	7.53 8.18	7.12 7.00	8.14 8.84	7.70 7.57	6.76 6.77	7.49 7.80	7.75 8.14	6.86	07
08	3.19 3.17	0.74 1.06	2.57 3.67	0.87 0.72	7.52 8.21	7.14 6.94	8.42 9.09	7.91	6.57 6.52	7.40 7.42	6.94 7.02	7.91 8.04	08
09	3.13 3.15	0.74 0.90	2.69 4.01	1.24	7.48 8.06	7.04	7.66 7.78	8.44 8.90	6.31 6.22	7.25 7.02	7.07 7.13	7.98 7.98	09
10	3.00 3.30	0.79 0.81	0.97 1.52	2.83 4.28	6.74 6.87	7.32 8.03	7.45 7.28	8.19 8.26	5.96 5.78	7.05 6.44	7.25 7.35	8.29 8.10	10
11	3.04 3.66	1.04	1.10 2.09	3.08 5.05	6.69 7.11	7.47 8.25	6.81 6.85	7.74 7.78	5.49 5.28	6.75 5.82	7.38 7.44	8.47 8.12	11
12	0.95 1.22	3.09 3.83	2.38 4.03	4.68 6.11	6.68 6.85	7.39 7.86	6.58 6.70	7.72 7.39	4.91 4.49	6.21 5.10	7.47 7.42	8.47 7.95	12
13	0.84 1.11	2.83 3.75	4.21 5.00	5.57 6.90	6.50 6.73	7.45 7.59	6.35 6.41	7.50 6.84	4.24 3.62	5.53 4.26	7.45 7.33	8.24 7.77	13
14	0.60 1.18	2.72 3.90	5.24 5.91	6.26 7.14	6.32 6.51	7.27 7.12	6.16 6.39	7.33 6.69	3.81 3.41	5.12	7.47 7.27	8.07 7.64	14
15	0.62 1.48	2.79 4.07	6.18 6.82	7.14 7.62	6.10 6.11	7.01 6.50	6.38 6.87	7.61	4.22 5.12	3.93 3.43	7.43 7.11	7.86	15
16	0.69 1.43	2.64 3.88	6.79 7.76	8.08 8.39	5.75 5.82	6.84 6.15	7.53A 8.97A	4.40 5.38	4.13 3.56	7.43 7.46	7.23 6.67	16	
17	0.55 1.63	2.67 3.91	7.77 8.19	8.67 9.04	5.52 5.55	6.89 5.86	8.75 9.46	8.72 8.78	4.61 5.24	4.04 3.44	7.02 7.06	6.77 6.39	17
18	0.81 1.64	2.84 3.60	8.26 8.46	9.31 8.95	5.31 5.19	6.60	9.25A 10.75A	4.57 5.08	3.88 3.29	6.95 7.11	6.70 6.54	18	
19	0.68 1.55	2.96 3.63	8.32 8.20	9.21	5.62 6.32	5.13 4.95	10.13A 11.29A	4.69 5.31	4.04 3.35	7.15 7.35	6.85 6.76	19	
20	0.61 1.23	3.05	8.79 9.33	8.21 8.13	5.50 6.33	5.08 4.77	10.93 11.49	10.80 10.33	4.48 5.00	3.60	7.48 7.65	7.03 6.98	20
21	3.25 3.30	0.59 1.07	8.84 9.39	8.30 8.12	5.71 6.84	5.40 5.15	10.33A 11.41A	3.45 3.84	4.71 5.43	7.67 7.66	7.07 6.95	21	
22	3.19 3.72	0.82 1.56	8.86 9.26	8.31 7.78	6.02 6.71	5.48	10.44 10.58	10.79 11.05	3.78 3.89	4.96 5.02	7.66 7.66	6.99 6.98	22
23	3.97 3.74	1.47 0.96	8.38 8.58	7.80	5.23 5.74	6.07 6.94	9.72 9.59	9.99 10.02	3.59 3.63	4.78 4.79	7.77 7.62	7.00 6.96	23
24	2.87 3.49	0.84 0.72	7.36 7.55	8.04 8.31	5.82 6.28	6.52 7.22	9.07 9.13	9.46 9.56	3.46 3.44	4.79 4.54	7.82 7.53	6.93	24
25	2.77 3.52	0.94	7.27 7.54	7.87 8.37	6.21 6.66	6.90 7.51	9.31A 8.78A	3.33 3.41	4.88 4.51	6.93 6.89	7.81 7.48	25	
26	0.59 1.03	2.64 3.60	7.36 7.55	7.97 8.18	6.63 6.97	7.30 7.72	8.67 8.75	9.13 8.98	3.38 3.43	5.04 4.44	6.85 6.45	7.73 7.04	26
27	0.49 1.01	2.47 3.39	7.09 7.28	7.67 7.78	6.82 7.23	7.60 7.87	8.48 8.46	8.93 8.71	3.42 3.25	5.08 4.14	6.39 5.78	7.39 6.42	27
28	0.33 1.18	2.44 3.53	6.86 7.08	7.39 7.54	7.14 7.45	7.85 7.91	8.26 8.28	8.81 8.48	3.54 3.57	5.40 4.88	5.79 5.14	6.82 5.80	28
29	0.30 1.11	2.28 3.25	6.71 7.01	7.35 7.41	7.22 7.66	8.06 8.04	8.11 8.08	8.70 8.23			5.41 5.31	6.65 6.26	29
30	0.18 1.26	2.24 3.17	6.63 7.16	7.38 7.78	7.50 8.17	8.38 8.57	7.95 7.84	8.58 7.99			6.11 6.87	7.54	30
31	0.21 1.62	2.46 3.28			8.24 8.42	8.95 8.68	7.80 7.75	8.48 7.95			7.74A 8.91A		31
MAXIMUM	4.07		9.39		8.95		11.49		8.45		8.91		MAXIMUM
MINIMUM	0.18		0.09		4.77		6.16		3.25		3.69		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 38 14 22, LONG. 121 30 57, SW SEC 35, T5N, R4E,  
AT HEAD OF GEORGIANA SLOUGH IMMEDIATELY SOUTHWEST OF  
WALNUT GROVE. AT TIMES TIDAL FLUCTUATION IS INFLUENCED  
BY OPERATION OF THE DELTA CROSS CHANNEL GATES.

PERIOD OF RECORD: FEB. 1929 TO DATE

TABLE B-12 (CONTINUED)

## DAILY TIDES

 R91650 SACRAMENTO RIVER AT WALNUT GROVE  
 (APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	8.96	8.86	4.70	3.18	4.80	1.82	4.59	0.95	4.62	1.05	4.06	1.51	01
	9.62	9.19	4.48	2.66	3.40	2.27	3.16	2.05	3.10	1.49	3.67	1.84	
02	10.25	10.00	4.76	2.78	4.83	1.76	4.57	0.87	4.35	1.15	3.97	1.59	02
	10.69	10.23	4.08	2.56	3.52	2.42	3.11	2.05	3.42	2.09	3.48		
03	10.98	10.43	4.68	2.41	4.82	1.78	4.55	0.96	4.49	1.44	1.92	3.47	03
	11.02	10.33	3.93	2.49	3.61	2.71	3.26	2.10	3.56	2.04	1.71	3.99	
04	11.08	10.32	4.93	1.78	4.90	1.77	4.46	0.87	4.33	1.39	1.81	3.66	04
	10.93	10.38	3.57	2.08	3.55	2.60	3.12	1.89	3.58		1.66	3.92	
05	11.25	10.43	4.73	1.67	4.52	1.60	4.29	0.85	1.92	4.11	1.62	3.35	05
	11.15	10.43	3.59	2.24	3.55	2.73	3.27		1.69	3.72	1.61	3.98	
06	11.12	10.12	4.68	1.55	4.54	1.46	2.06	4.27	2.12	3.83	1.65	3.20	06
	10.51	9.86	3.54	2.21	3.54		0.94	3.39	1.57	3.86	1.79	4.09	
07	10.45	9.46	4.58	1.32	2.68	4.43	1.88	3.95	2.06	3.65	1.60	3.18	07
	9.83	9.31	3.39	2.22	1.35	3.48	0.81	3.29	1.73	4.05	2.17	4.38	
08	9.89	9.10	4.53	1.45	2.52	4.15	1.63	3.48	2.05	3.35	1.72	3.03	08
	9.62		3.60		1.23	3.70	0.70	3.36	1.62	4.16	2.40	4.47	
09	9.14	9.64	2.69	4.58	2.66	4.04	1.68	3.34	2.05	3.40	1.62	3.01	09
	8.79	9.05	1.68	3.66	1.31	3.68	0.87	3.53	1.59	4.36	2.43	4.42	
10	8.72	9.04	2.84	4.16	2.54	3.67	1.81	3.12	1.76	2.86	1.54	3.12	10
	8.34	8.58	1.38	3.33	1.25	3.80	1.11	3.75	1.83	4.48	2.47	4.46	
11	8.40	8.72	2.64	3.75	2.48	3.42	1.70	2.52	1.59	2.79	1.50	3.25	11
	7.93	8.18	1.24	3.39	1.35	3.94	1.08	3.81	2.16	4.69	2.29		
12	8.00	8.27	2.77	3.70	2.32	2.98	1.53	2.27	1.62	3.18	4.56	1.74	12
	7.65	7.90	1.50	3.52	1.31	4.01	1.26	3.90	2.50	4.79	3.89	2.66	
13	7.78	7.95	2.59	2.96	2.08	2.75	1.30	2.22	1.54	3.25	4.99	2.08	13
	7.40	7.72	1.31	3.41	1.44	4.11	1.54	4.18	2.36		4.01	2.52	
14	7.61	7.75	2.38	2.84	1.62	2.48	1.23	2.40	4.67	1.25	4.77	1.94	14
	7.28		1.55		1.47		1.86	4.49	3.12	2.08	4.01	2.14	
15	7.66	7.45	3.77	2.34	4.16	1.36	1.28	2.86	4.72	1.35	4.47	1.83	15
	7.54	7.04	2.86	1.70	2.67	1.83	2.23		3.38	2.08	4.12	1.99	
16	7.47	7.20	3.80	2.01	4.40	1.38	4.66	1.18	4.70	1.36	4.27	1.88	16
	7.31	6.95	2.62	1.76	2.88	2.07	2.94	2.20	3.43	1.87	4.26		
17	7.48	7.14	3.98	1.71	4.72	1.48	4.84	1.22	4.49	1.29	1.82	4.00	17
	7.45	7.01	2.76	1.84	3.20	2.37	3.19	2.19	3.48	1.68	1.79	4.28	
18	7.56	7.00	3.91	1.50	5.01	1.47	4.85	1.19	4.23	1.29	1.82	3.91	18
	7.31	6.85	2.78	1.87	3.48	2.38	3.20	2.00	3.76		1.95	4.48	
19	7.43	6.77	4.16	1.49	5.11	1.34	4.77	1.17	1.71	4.04	1.91	3.79	19
	7.13	6.71	2.95	2.07	3.41	2.32	3.30	1.82	1.20	3.64	2.06	4.58	
20	7.47	6.63	4.26	1.44	4.95	1.25	4.66	1.23	1.38	3.54	1.80	3.49	20
	7.09	6.59	2.98	2.15	3.41	2.24	3.51		1.10	3.82	2.08	4.46	
21	7.44	6.43	4.46	1.44	4.97	1.34	1.79	4.44	1.42	3.37	1.59	3.30	21
	6.94	6.37	3.09	2.31	3.63		1.15	3.71	1.21	3.98	2.09	4.26	
22	7.33	5.95	4.62	1.52	2.34	4.87	1.74	4.16	1.42	3.16	1.55	3.28	22
	6.66	5.86	3.30	2.51	1.44	3.81	1.11	3.84	1.37	4.07	2.29	4.14	
23	6.99	5.14	4.76	1.53	2.24	4.51	1.65	3.75	1.37	2.87	1.45	3.23	23
	6.05		3.38		1.27	3.69	1.06	3.95	1.51	4.16	2.33	4.00	
24	5.12	6.45	2.44	4.62	1.85	3.92	1.47	3.35	1.38	2.92	1.39	3.39	24
	4.31	5.43	1.23	3.24	0.99	3.67	1.02	4.02	1.93	4.40	2.34	3.96	
25	4.53	5.95	2.04	4.24	1.64	3.37	1.27	2.88	1.58	3.19	1.56	3.63	25
	3.73	5.00	0.98	3.20	0.72	3.60	1.08	4.20	2.31	4.39	2.42		
26	4.19	5.61	2.03	3.99	1.25	2.73	1.36	2.99	1.52	3.12	3.92	1.36	26
	3.32	4.53	1.04	3.51	0.59	3.76	1.68	4.54	2.20	4.28	3.45	1.98	
27	3.86	5.09	2.13	3.89	1.00	2.36	1.45	2.96	1.46	3.37	3.89	1.35	27
	2.95	4.36	1.33	3.95	0.67	3.83	1.84	4.47	2.35		3.48	1.82	
28	3.66	4.79	2.24	3.63	0.75	2.28	1.25	3.39	4.31	1.39	3.78	1.42	28
	2.71	4.31	1.57	4.22	0.96		2.40		3.31	2.20	3.64	1.70	
29	3.36	4.36	1.97	3.06	4.04	0.76	4.77	1.71	4.15	1.36	3.66	1.36	29
	2.52		1.31		2.61	1.57	3.29	2.45	3.36	2.09	3.52	1.33	
30	4.34	3.19	4.10	1.70	4.51	1.18	4.67	1.57	4.13	1.40	3.31	1.18	30
	4.33	2.67	3.03	1.65	3.17	2.05	3.38	2.48	3.40	1.99	3.46		
31			4.44	1.72			4.70	1.60	4.08	1.41			31
			3.26	2.06			3.35	2.36	3.48	1.88			
MAXIMUM	11.25		4.93		5.11		4.85		4.79		4.99		MAXIMUM
MINIMUM	2.52		0.98		0.59		0.70		1.05		1.18		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 12.24 - 12/25/64

 ZERO OF GAGE: 1929 TO 1931 0.00 USED  
 1931 TO 1940 0.33 USED  
 1940 0.00 USCGS  
 1964 -0.69 USCGS  
 1964 TO DATE 0.00 USCGS

TABLE B-12 (CONTINUED)  
DAILY TIDES  
891560 YOLO BYPASS NEAR LISRON  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	2.82 3.78	5.80 6.67	2.56 4.18	5.55 5.77	12.98A 12.64A		14.81A 15.28A		15.60A 15.30A		6.46A 9.92A		01
02	2.62 3.58	5.45 6.10	2.19 4.05	5.29 5.53	12.61A 13.69A		15.29A 15.19A		15.30A 14.90A		9.94A 11.91A		02
03	2.22 3.80	5.15 5.90	2.25 3.46	5.26 5.04	13.70A 14.92A		15.19A 14.96A		14.90A 14.54A		11.93A 13.10A		03
04	2.16 3.89	5.20 5.74	2.00 3.00	5.22	14.93A 15.45A		15.02A 14.71A		14.54A 14.23A		13.10A 13.49A		04
05	2.19 3.83	5.40	4.82 5.48	2.10 3.19	15.49A 15.34A		14.74A 14.34A		14.29A 13.61A		13.54A 13.48A		05
06	6.00 6.03	2.88 3.93	5.35 5.92	2.79 2.66	15.34A 14.89A		NR NR		13.62A 13.11A		13.49A 13.15A		06
07	6.17 5.98	2.80 3.46	5.15 6.09	2.69 2.65	14.88A 14.47A		NR NR		13.10A 12.63A		13.16A 12.79A		07
08	5.94 5.91	2.65 3.03	5.32 6.23	2.88 2.49	14.47A 14.09A		NR NR		12.63A 12.23A		12.79A 12.43A		08
09	5.83 5.71	2.52 2.75	5.44 6.60	3.21	14.09A 13.78A		NR NR		12.23A 11.77A		12.43A 12.34A		09
10	5.65 5.87	2.57 2.60	2.71 3.47	5.62 6.83	13.78A 13.47A		12.74A 12.47A		11.77A 11.22A		12.33A 12.44A		10
11	5.71 6.19	2.86	2.66 4.09	5.88 7.44	13.46A 13.15A		12.48A 12.20A		11.22A 10.33A		12.44A 12.66A		11
12	2.65 3.03	5.78 6.34	3.32 4.93	6.79 7.81	13.15A 12.72A		12.20A 11.82A		10.31A 8.61A		12.66A 12.78A		12
13	2.51 3.02	5.60 6.37	3.97 6.58	7.09 8.90	12.76A 12.31A		11.81A 11.50A		8.01 7.08		8.55 12.73A		13
14	2.38 3.19	5.51 6.51	6.98 7.26	7.82 8.49	12.30A 11.81A		11.40A 11.53A		7.32 7.83		6.91 6.51		14
15	2.40 3.52	5.56 6.65	7.14 7.83	8.15 8.71	11.80A 11.33A		11.81A 11.53A		7.02 7.58		6.66 5.95		15
16	2.46 3.51	5.43 6.47	8.05A 9.95A		11.33A 10.63A		12.68A 11.81A		6.74 7.68		6.43 5.93		16
17	2.28 3.64	5.37 6.43	9.96A 11.30A		10.61A 9.35A		15.93A 12.68A		6.92 7.48		6.26 5.61		17
18	2.51 3.66	5.51 6.17	11.32A 14.11A		8.87 8.29		9.31 18.73A		15.93A 6.84		5.92 7.39		18
19	2.41 3.62	5.58	14.14A 15.75A		8.48 8.79		8.06 7.69		21.01A 18.73A		5.26 5.98		19
20	6.22 5.76	2.50 3.33	15.75A 16.11A		8.06 8.64		7.70 7.35		21.66A 21.01A		5.43 5.79		20
21	5.92 6.00	2.54 3.16	16.12A 16.06A		8.03 9.04		7.75		21.67A 21.37A		6.82 7.23		21
22	5.89 6.44	2.86 3.88	16.06A 15.67A		7.76 8.09		8.45 8.99		21.75A 20.67A		6.99 6.76		22
23	6.78 6.49	3.65 2.90	15.67A 14.87A		8.15 8.66		8.77 9.44		21.67A 19.96A		6.89 7.40		23
24	5.64 6.11	2.76	14.86A 14.40A		9.21A 10.02A		19.96A 19.23A		7.53 7.58		8.31 8.14		24
25	2.55 2.83	5.51 6.03	14.40A 14.07A		9.69A 10.12A		19.23A 18.64A		7.50 7.60		8.37 8.15		25
26	2.31 2.97	5.33 6.10	14.10A 14.03A		9.89A 10.40A		18.64A 18.21A		7.57 7.62		8.49 8.13		26
27	2.22 3.05	5.19 5.97	14.03A 13.98A		10.30A 11.07A		18.21A 17.69A		7.60 7.55		8.55 7.99		27
28	2.10 3.33	5.19 6.07	13.98A 13.76A		11.07A 11.76A		17.69A 17.19A		7.67 7.80		8.84		28
29	1.93 3.02	4.79 5.65	NR NR		11.77A 12.97A		17.19A 16.61A						29
30	1.92 3.51	4.95 5.78	13.32A 12.87A		12.98A 13.91A		16.61A 16.07A						30
31	2.03 3.95	5.15 5.94			13.91A 14.81A		16.07A 15.60A						31
MAXIMUM	6.78		NR		15.49		NR		15.60		14.54		MAXIMUM
MINIMUM	1.92		NR		7.35		NR		5.26		8.46		MINIMUM

NR - NO RECORD

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 38 28 30, LONG. 121 35 14, SE SEC 1, T7N, R3E,  
IN WEST CUT, 6.9 MILES SOUTH OF INTERSTATE 80, 5.2 MILES  
NORTHWEST OF CLARKSBURG.

PERIOD OF RECORD: FEB 1959 TO DATE

TABLE R-12 (CONTINUED)  
DAILY TIDES  
891560 YOLO BYPASS NEAR LISBON  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	14.58A	18.05A	7.50 7.14	5.47 4.78	7.08 5.78	4.09 4.61	7.02 5.58	4.65 5.09	6.57 5.22	4.95	5.13 5.24	6.20 5.81	01
02	18.08A	20.59A	7.40 6.61	4.21 3.90	7.03 5.91	3.97 4.81	6.94 5.42	4.38 4.94	4.83 4.87	6.47 5.58	5.23 5.25	6.13 6.90	02
03	20.61A	21.44A	7.39 6.51	3.58 3.72	7.13 5.97	3.97 5.00	6.85 5.66	4.52	5.09 5.13	6.60 5.73	5.41 5.38	6.09 6.17	03
04	21.52A	21.25A	7.52 6.54	3.42 3.92	7.18 5.85	4.00	5.08 4.22	6.74 5.45	5.19 5.10	6.48 5.75	5.48 5.27	5.92 6.09	04
05	21.24A	20.81A	7.54 6.50	3.23 4.19	4.78 3.70	6.79 5.81	4.77 4.13	6.58 5.74	5.11 4.89	6.22 5.57	5.40 5.07	5.59 6.09	05
06	20.79A	19.84A	7.45 6.42	3.07	4.99 3.64	6.85 5.84	5.08 4.37	6.62 5.83	4.90 4.57	5.76 5.68	5.34 5.07	5.48 6.20	06
07	19.83A	18.65A	4.19 2.95	7.35 6.27	5.00 3.44	6.76 5.61	5.04 4.25	6.34 5.66	4.89 4.70	5.65 5.97	5.36 5.22	5.48 6.54	07
08	18.63A	17.71A	4.20 3.00	7.25 6.41	4.76 3.49	6.38 6.06	4.71 4.02	5.83 5.85	5.04 4.41	5.29 5.96	5.60 5.41	5.62 6.68	08
09	17.70A	16.80A	4.76 3.11	7.28 6.43	5.17 3.75	6.48 6.03	4.89 4.17	5.84 6.02	4.98 4.67	5.27 6.44	6.65A 5.43A	5.43A	09
10	16.80A	16.03A	4.71 2.61	6.80 6.02	5.09 3.70	6.05 6.12	5.01 4.16	5.65 6.07	5.31 4.89	5.35 6.55	6.62 5.62	5.58 5.42	10
11	16.03A	15.28A	4.50 2.55	6.41 6.07	5.12 3.90	5.79	4.77 3.82	4.93 5.98	5.22 4.98	5.26	6.65 5.56	5.54 5.30	11
12	15.28A	14.57A	4.89 2.79	6.33 6.06	6.22 5.39	5.02 3.84	4.57 3.88	4.64	6.85 5.49	5.40 5.31	6.66 6.10	5.69 5.80	12
13	14.56A	13.94A	4.35 2.74	5.29	6.27 5.20	4.85 4.13	6.04 4.61	4.54 4.16	6.99 5.53	5.44 5.26	7.17 6.27	6.11 5.86	13
14	13.93A	13.61A	5.90 5.38	4.12 3.30	6.45 4.91	4.50 4.11	6.34 4.78	4.71 4.50	6.75 5.22	5.11 4.92	6.95 6.20	5.98	14
15	13.70A	13.33A	6.61 5.52	4.36 3.68	6.46 5.10	4.22 4.47	6.67 5.19	5.05 5.00	6.71 5.43	5.17 5.04	5.67 5.70	6.61 6.29	15
16	13.32A	13.00A	6.68 5.33	3.87 3.70	6.72 5.27	4.28 4.56	6.87 5.16	5.07 4.94	6.79 5.62	5.32	5.59 5.59	6.44 6.40	16
17	12.92A	13.12A	6.82 5.69	3.56 3.50	6.90 5.54	4.25 4.91	6.93 5.29	5.05 4.99	5.07 5.09	6.53 5.57	5.58 5.44	6.18 6.41	17
18	13.01A	12.57A	6.56 5.40	2.87 3.47	7.23 5.86	4.60 5.20	6.94 5.29	4.97 4.89	4.91 5.01	6.28 5.90	5.57 5.45	6.09 6.60	18
19	12.56A	12.16A	6.64 5.66	2.91 3.92	7.37 5.82	4.48 5.12	6.85 5.41	4.91	5.16 4.90	6.14 5.64	5.70 5.45	5.99 6.69	19
20	12.15A	11.69A	6.84 5.70	2.92 3.90	7.24 5.77	4.29	4.85 4.91	6.71 5.66	4.78 4.53	5.55 5.83	5.68 5.42	5.86 6.68	20
21	11.69A	11.13A	6.94 5.72	2.81 4.10	5.05 4.57	7.33 6.10	4.96 4.79	6.54 5.82	4.90 4.60	5.50 5.98	5.60 5.36	5.74 6.50	21
22	11.12A	9.86A	7.07 5.92	2.89	5.32 4.74	7.30 6.35	4.98 4.66	6.28 5.92	4.99 4.62	5.29 6.15	5.43 5.36	5.66 6.44	22
23	9.83A	7.45A	4.38 2.98	7.19 6.01	5.38 4.59	7.02 6.09	4.94 4.49	5.90 6.00	4.99 4.55	5.10 6.12	5.38 5.36	5.62	23
24	7.13 6.22	8.44 7.43	4.38 2.97	7.07 5.91	4.90 4.15	6.29 6.09	4.86 4.33	5.46 6.09	4.92 4.75	5.09 6.49	6.29 5.68	5.25 5.40	24
25	6.54 6.48	8.26 7.74	4.23 2.63	6.75 5.72	4.82 3.95	5.83 5.98	4.77 4.20	5.05 6.25	5.27 5.14	5.43	6.23 6.02	5.35 5.69	25
26	7.15 7.08	8.42 7.90	4.05 2.71	6.37 5.93	4.46 3.67	5.12	4.86 4.68	5.18	6.58 5.39	5.28 5.09	6.29 5.67	5.32 5.29	26
27	7.56 7.37	8.41 8.07	4.20 3.29	6.34 6.46	6.08 4.76	4.30 3.69	6.68 5.30	5.15 4.81	6.38 5.49	5.18 5.21	6.11 5.68	5.23 5.23	27
28	7.70 7.18	8.28	4.53 3.76	6.23	6.15 4.71	4.16 3.97	6.55 5.11	4.88 4.84	6.45 5.44	5.19 5.11	5.94 5.84	5.22	28
29	7.94 7.81	7.28 6.48	6.65 5.50	4.16 3.16	6.41 5.05	4.26 4.54	6.70 5.24	5.01 4.95	6.33 5.43	5.14 5.07	5.30 5.16	5.82 5.66	29
30	7.54 7.20	6.27 5.42	6.29 5.31	3.73 3.72	6.89 5.69	4.81 5.19	6.62 5.39	4.87 5.05	6.25 5.56	5.14	5.03 4.80	5.41 5.50	30
31			6.62 5.67	3.98 4.40			6.69 5.29	4.98 4.94	5.10 5.15	6.22 5.64			31
MAXIMUM		21.52	7.54		7.37		7.02		6.99		7.17		MAXIMUM
MINIMUM		5.42	2.55		3.44		3.82		4.41		4.80		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

MAXIMUM GAGE HEIGHT OF RECORD:

ZERO OF GAGE: 1959 TO 1962 0.43 USED  
1962 0.00 USED  
1962 -3.04 USCGS  
1964 -3.39 USCGS  
1964 TO DATE -3.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

 891210 SACRAMENTO RIVER AT RIO VISTA  
 (OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	2.44 3.89	5.65 6.69	2.19 4.42	5.81 5.90	3.69 4.91	6.99 5.77	3.50 3.83	7.01 4.64	4.63 3.42	7.20 5.21	4.82 3.62	7.59 6.07	01
02	2.31 3.91	5.39 6.21	1.96 4.12	5.51 5.62	2.80 3.98	6.19 4.94	3.31 3.45	6.60 4.94	4.52 2.89	7.15	4.99 3.06	7.59	02
03	2.06 4.15	5.20 5.99	2.05 3.56	5.51 5.13	2.74 3.60	6.30 4.90	4.06 3.53	7.46 5.39	5.55 7.32	4.59 2.80	6.09 7.41	4.84 2.63	03
04	1.98 4.20	5.23 5.81	1.84 3.01	5.49 4.93	3.15 3.39	6.73 5.12	4.52 3.35	7.83 3.35	5.89 7.75	4.52 3.02	5.85 7.13	4.25 2.53	04
05	2.08 4.10	5.52 6.12	1.92 3.14	5.88 5.42	3.52 3.05	6.97 3.05	6.22 8.48	5.19 3.42	6.14 7.47	4.13 2.72	6.18 7.38	4.01 2.75	05
06	2.56 4.03	6.05 6.29	2.52 2.38	6.19	5.33 7.12	3.72 2.66	6.45 8.44	5.08 3.29	5.91 7.42	3.56 2.69	6.62 7.74	4.04 3.17	06
07	2.61 3.42	6.09	5.25 6.49	2.54 2.33	5.51 7.46	3.91 2.59	6.56 8.34	4.90 3.22	6.45 7.36	3.67 2.79	7.20 8.00	4.12 3.35	07
08	6.06 6.06	2.46 2.99	5.42 6.64	2.76 2.07	5.71 7.73	4.08 2.54	6.95 8.51	5.01 3.29	6.58 6.90	3.40 2.63	7.24 7.48	3.67 3.23	08
09	6.04 6.08	2.44 2.69	5.53 6.93	3.10 2.15	5.86 7.62	4.10 2.25	6.95 8.25	4.68	6.74 6.59	3.20	7.06 6.73	3.03 3.04	09
10	5.89 6.23	2.52 2.44	5.62 7.17	3.31 2.06	5.78 7.68	4.03 2.30	3.16 4.26	6.89 7.75	2.75 3.15	6.99 6.19	7.17 6.61	3.06 3.45	10
11	5.93 6.59	2.82 2.44	5.80 7.65	3.97 2.39	6.40 8.36	5.09	2.88 3.95	6.77 7.26	3.01 3.10	7.14 5.79	7.44 6.51	3.25	11
12	5.96 6.77	3.04 2.21	6.71 7.88	4.51	2.77 4.40	6.50 7.71	2.98 4.07	7.26 6.89	3.26 3.20	7.07 5.64	3.98 3.29	7.48 6.19	12
13	5.69 6.75	3.05 2.01	2.46 4.23	6.21 8.02	2.72 4.47	6.95 7.46	3.09 3.73	7.22 6.00	3.72 2.69	6.82 4.97	4.09 2.96	7.06 5.66	13
14	5.59 6.94	3.27	2.73 4.10	6.27 7.34	2.69 4.20	6.81 6.74	2.97 3.53	7.10 5.52	3.90 2.42	6.50 4.90	4.28 2.98	6.74 5.50	14
15	2.04 3.65	5.66 7.06	2.30 4.21	6.32 7.05	2.43 3.56	6.61 5.77	3.57 3.64	7.37 5.83	4.08 2.33	6.37	4.56 2.97	6.53 5.54	15
16	2.13 3.68	5.49 6.86	2.49 4.30	6.98 6.65	2.37 3.36	6.70 5.50	4.48 4.05	8.03 5.76	5.19 6.77	4.42 2.53	4.72 2.92	6.24	16
17	1.96 3.85	5.50 6.81	2.62 4.48	6.99 7.44	2.87 3.22	7.24 5.34	4.69 3.33	7.42	5.52 6.58	4.11 2.20	5.69 6.20	4.57 2.73	17
18	2.26 3.82	5.68 6.47	3.67 3.96	7.53 6.08	3.23 2.77	7.05 5.26	5.81 7.91	5.06 4.16	5.57 6.50	3.88 2.13	5.94 6.31	4.45 2.84	18
19	2.15 3.69	5.80 6.54	2.79 3.03	6.86 5.64	3.57 2.36	6.82	6.49 8.00	5.60 4.62	5.90 6.90	4.18 2.29	6.18 6.56	4.23 2.94	19
20	2.17 3.33	5.96 6.18	3.18 3.35	7.31	5.29 7.01	3.88 2.41	6.93 8.31	6.04 4.75	5.57 6.37	3.22 1.94	6.60 6.97	4.23 3.29	20
21	2.27 3.06	6.27	6.14 7.68	3.91 3.34	5.86 7.79	4.73 2.94	6.97 8.01	5.92 4.82	5.68 6.86	3.22 2.29	6.87 6.79	3.81 3.03	21
22	6.13 6.72	2.55 3.37	6.37 7.87	4.33 3.25	6.22 7.41	4.58 2.49	6.78 7.65	5.70 4.49	5.85 6.07	2.93 1.95	6.72 6.69	3.37 3.21	22
23	6.90 6.67	3.27 2.55	6.40 7.61	4.47 2.91	5.90 7.22	4.33 2.30	6.68 7.71	5.49 4.37	5.73 5.87	2.61 2.11	6.94 6.61	3.28 3.36	23
24	5.75 6.45	2.61 2.24	6.41 7.23	4.42 2.54	5.82 7.09	4.27 2.23	6.81 7.50	5.46 4.29	5.96 5.67	2.46 2.38	7.08 6.38	3.02 3.46	24
25	5.65 6.48	2.80 1.95	6.01 7.48	4.51 2.93	5.81 6.99	4.30 2.28	6.99 7.32	5.42 4.28	6.28 5.71	2.64 2.79	7.15 6.40	2.99 3.68	25
26	5.49 6.54	2.98 1.82	6.32 7.30	4.76 2.61	6.00 7.06	4.44 2.65	6.96 6.59	5.00	6.61 5.62	2.86	7.31 6.50	2.97 4.42	26
27	5.33 6.34	3.06 1.66	6.03 6.67	4.54	6.40 6.91	4.59	3.86 4.59	6.59 6.05	3.16 2.58	6.74 5.27	7.74 6.47	3.12 4.75	27
28	5.30 6.53	3.38	2.21 4.31	5.62 6.43	2.62 4.49	6.30 6.55	3.71 4.37	6.66 5.63	3.84 3.49	7.31 6.38	7.54 5.85	2.74	28
29	1.60 3.38	5.17 6.17	2.31 4.66	5.96 6.42	2.65 4.67	6.50 6.44	3.79 4.22	6.75 5.23			4.44 3.03	7.35 6.29	29
30	1.53 3.62	5.11 6.06	2.54 5.32	6.41 7.38	2.93 4.17	6.34 5.57	3.91 3.96	6.88 5.02			5.37 3.41	7.92 6.28	30
31	1.67 4.10	5.32 6.15			2.98 4.19	6.54 5.28	4.16 3.80	7.04 5.30			4.86 2.88	6.93 6.36	31
MAXIMUM	7.06		8.02		8.36		8.51		7.75		8.00		MAXIMUM
MINIMUM	1.53		1.84		2.23		2.88		1.94		2.53		MINIMUM

 LOCATION: LAT. 38 08 42, LONG. 121 41 30, SW SEC. 31, T4N, R3E,  
 DN DOCK AT U. S. ENGINEERS TRANSPORTATION DEPOT,  
 1.1 MILES BELOW STATE HIGHWAY 12 BRIDGE.

PERIOD OF RECORD: 1925 TO DATE

TABLE B-12 (CONTINUED)  
DAILY TIDES  
891210 SACRAMENTO RIVER AT RIO VISTA  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	4.93 3.77	7.34 7.28	3.32 2.74	6.24	7.61 6.08	2.70 3.90	7.61 5.98	2.35 4.45	7.35 5.93	2.32 4.02	6.96 6.49	2.75 3.47	01
02	5.20 4.47	7.52	6.86 6.02	2.79 2.80	7.67 6.20	2.57 4.08	7.60 6.01	2.27 4.42	7.32 6.26	2.44 4.21	6.96 6.68	2.96 3.47	02
03	7.70 7.60	5.30 4.81	7.04 6.14	2.62 3.15	7.64 6.26	2.36 4.30	7.59 6.12	2.39 4.43	7.45 6.38	2.85 4.03	6.72 6.80	3.14 3.32	03
04	7.89 7.60	5.17 4.94	7.38 6.23	2.65 3.53	7.69 6.20	2.31 4.24	7.50 6.02	2.23 4.16	7.25 6.41	2.80 3.91	6.51 6.80	3.20 3.11	04
05	8.31 8.16	5.41 5.62	7.53 6.27	2.52 3.89	7.29 6.19	2.07 4.47	7.31 6.21	2.24 4.35	7.03 6.44	2.78 3.61	6.17 6.85	3.16	05
06	8.71 7.57	5.27 5.25	7.53 6.25	2.40 4.09	7.29 6.22	2.00 4.52	7.30 6.31	2.36 4.19	6.52 6.52	2.60 3.47	2.99 3.48	5.97 6.96	06
07	8.14 7.23	4.69 5.22	7.47 6.13	2.28 4.16	7.20 6.18	2.05 4.44	6.94 6.22	2.30 3.80	6.32 6.76	2.43	2.93 4.08	5.92 7.21	07
08	8.11 7.46	4.64 5.60	7.40 6.27	2.35 4.63	6.93 6.46	1.99 4.68	6.43 6.28	2.22	3.45 2.90	5.96 6.87	2.98 4.39	5.75 7.29	08
09	8.13 6.85	4.53 5.19	7.36 6.32	1.98 4.66	6.85 6.46	2.32	3.74 2.30	6.21 6.38	3.50 3.57	5.92 7.22	2.82 4.50	5.75 7.22	09
10	7.30 6.09	3.70	6.89 5.95	2.01	4.63 2.44	6.47 6.62	3.75 2.48	5.85 6.58	3.57 3.95	5.63 7.38	2.67 4.53	5.87 7.30	10
11	4.97 3.52	6.94 5.91	4.54 1.97	6.46 6.01	4.61 2.73	6.16 6.68	3.39 2.50	5.21 6.60	3.21 4.38	5.57 7.59	2.50 4.20	6.02 7.43	11
12	5.02 3.27	6.58 5.82	4.79 2.76	6.27 6.10	4.36 2.87	5.69 6.80	3.00 2.93	4.90 6.73	3.02 4.73	5.86 7.70	2.77 4.36	6.61 7.81	12
13	5.03 3.19	6.22 5.79	4.36 2.15	5.31 6.01	3.94 3.17	5.40 6.94	2.67 3.46	4.88 7.04	2.86 4.55	5.96 7.62	3.07 4.04	6.77	13
14	4.91 3.10	5.88 6.01	4.02 2.43	5.12 6.36	3.23 3.43	5.17 6.96	2.44 3.91	5.12 7.35	2.37 4.09	5.91	7.60 6.76	2.91 3.46	14
15	4.82 3.19	5.88 6.12	3.66 2.78	5.15 6.42	2.67 3.74	5.35 7.26	2.43 4.36	5.52 7.55	7.66 6.15	2.44 3.95	7.35 6.91	2.86 3.24	15
16	4.43 3.16	5.70	3.11 3.05	4.94 6.68	2.52 3.99	5.60 7.60	2.26 4.30	5.67	7.65 6.20	2.39 3.55	7.14 7.10	2.98 2.97	16
17	6.33 6.22	4.38 3.40	2.74 3.10	5.27	2.40 4.37	5.92	7.76 5.91	2.19 4.20	7.45 6.27	2.28 3.22	6.84 7.16	3.00 2.95	17
18	6.84 6.23	3.88 3.26	6.65 5.31	2.19 3.22	7.93 6.24	2.51 4.42	7.81 5.97	2.14 3.94	7.16 6.55	2.31 3.19	6.72 7.35	3.31 3.10	18
19	6.68 6.02	3.28 3.43	6.86 5.48	2.08 3.45	8.03 6.19	2.18 4.27	7.74 6.09	2.18 3.62	6.92 6.53	2.20 2.70	6.59 7.46	3.58	19
20	6.93 6.15	3.07 3.50	7.00 5.51	1.79 3.52	7.88 6.17	2.00 4.07	7.62 6.35	2.29 3.53	6.41 6.72	2.27	2.99 3.83	6.29 7.36	20
21	7.10 6.24	2.77 3.77	7.21 5.66	1.71 3.74	7.90 6.41	2.13 4.19	7.39 6.58	2.23 3.44	2.75 2.54	6.20 6.90	2.81 4.09	6.08 7.16	21
22	7.46 6.52	2.82 4.21	7.38 5.91	1.81 4.04	7.80 6.57	2.29 4.02	7.10 6.75	2.30	2.77 2.88	5.97 6.97	2.97 4.52	6.06 7.02	22
23	7.72 6.54	2.73 4.25	7.53 6.03	1.91 3.97	7.40 6.53	2.13 3.58	3.32 2.46	6.69 6.90	2.66 3.27	5.64 7.07	2.92 4.63	6.03 6.87	23
24	7.70 6.35	2.49 4.26	7.44 5.96	1.85 3.93	6.80 6.53	1.98	3.18 2.61	6.25 7.01	2.74 3.96	5.70 7.26	2.89 4.59	6.21 6.77	24
25	7.49 6.19	2.24 4.36	7.09 5.93	1.63	3.32 1.91	6.16 6.51	2.87 2.95	5.74 7.18	2.95 4.43	5.96 7.29	3.03 4.50	6.37 6.71	25
26	7.31 5.80	2.14	3.83 1.72	6.80 6.27	2.95 2.10	5.54 6.72	3.01 3.77	5.78 7.44	2.84 4.28	5.89 7.09	2.71 3.93	6.26	26
27	4.22 1.87	6.76 5.82	3.92 2.18	6.64 6.72	2.64 2.49	5.19 6.85	3.03 3.99	5.71 7.34	2.75 4.34	6.10 7.18	6.74 6.33	2.76 3.71	27
28	4.21 1.88	6.52 6.00	3.83 2.62	6.34 7.05	2.32 3.14	5.15 7.09	2.71 4.30	5.69 7.48	2.51 4.09	6.04	6.67 6.50	2.89 3.38	28
29	3.98 1.91	6.15 6.19	3.28 2.37	5.77 6.91	2.27 3.84	5.45 7.50	2.67 4.33	5.89	7.02 6.09	2.48 3.96	6.49 6.41	2.84 2.89	29
30	3.69 2.31	6.10 6.66	2.84 2.95	5.73 7.31	2.69 4.40	5.95	7.42 5.96	2.46 4.32	6.99 6.15	2.49 3.75	6.20 6.36	2.69 2.67	30
31			2.77 3.59	5.95			7.45 5.93	2.43 4.14	6.92 6.27	2.54 3.61			31
MAXIMUM	8.71		7.53		8.03		7.81		7.70		7.81		MAXIMUM
MINIMUM	1.87		1.63		1.91		2.14		2.20		2.50		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 10.2 - 12/26/55

ZERO OF GAGE: 1925 0.00 USED  
1961 -0.57 USED  
1961 -3.63 USCGS  
1964 -3.80 USCGS  
1964 TO DATE -3.00 USCGS

TABLE B-12 (CONTINUED)

## DAILY TIDES

891160 THREE MILE SLOUGH AT SACRAMENTO RIVER  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	-0.34 1.11	2.74 3.75	-0.64 1.64	2.83 3.01	0.83 2.09	4.04 2.90	0.65 1.04	4.09 1.78	1.72 0.44	4.29 2.27	1.99 0.77	4.66 3.12	01
02	-0.47 1.13	2.48 3.31	-0.83 1.33	2.60 2.73	-0.05 1.17	3.25 2.08	0.46 0.56	3.67 2.01	1.61 -0.10	4.23	2.16 0.18	4.66 3.15	02
03	-0.75 1.36	2.30 3.09	-0.76 0.77	2.60 2.24	-0.10 0.75	3.36 2.00	1.21 0.64	4.52 2.48	2.60 4.39	1.69 -0.20	2.00 -0.27	4.48	03
04	-0.82 1.40	2.34 2.92	-0.96 0.24	2.57 2.03	0.30 0.51	3.76 2.19	1.67 0.47	4.91	2.93 4.80	1.61 0.03	2.89 4.17	1.38 -0.41	04
05	-0.72 1.30	2.61 3.21	-0.88 0.35	2.95 2.50	0.66 0.11	4.00	3.27 5.53	2.33 0.58	3.18 4.58	1.32 -0.24	3.20 4.39	1.14 -0.18	05
06	-0.27 1.24	3.11 3.40	-0.27 -0.41	3.26	2.37 4.16	0.85 -0.24	3.50 5.49	2.23 0.42	2.96 4.45	0.72 -0.28	3.63 4.75	1.14 0.25	06
07	-0.20 0.63	3.17	2.35 3.57	-0.24 -0.45	2.53 4.51	1.05 -0.30	3.61 5.40	2.07 0.36	3.46 4.39	0.77 -0.19	4.21 5.01	1.23 0.44	07
08	3.15 3.14	-0.35 0.20	2.51 3.71	-0.02 -0.72	2.73 4.73	1.23 -0.35	4.00 5.55	2.19 0.39	3.61 3.91	0.49 -0.30	4.26 4.48	0.83 0.32	08
09	3.13 3.17	-0.34 -0.09	2.61 4.01	0.32 -0.65	2.88 4.65	1.26 -0.64	3.97 5.28	1.85 0.27	3.74 3.61	0.30	4.07 3.71	0.09 0.17	09
10	2.98 3.31	-0.28 -0.36	2.73 4.23	0.53 -0.76	2.81 4.70	1.19 -0.60	3.91 4.76	1.40	-0.15 0.26	3.99 3.22	4.18 3.61	0.15 0.54	10
11	3.03 3.66	0.03 -0.35	2.89 4.69	1.20 -0.42	3.40 5.38	2.25	-0.01 1.10	3.80 4.29	0.13 0.22	4.15 2.83	4.44 3.54	0.33 1.10	11
12	3.04 3.84	0.26 -0.59	3.71 4.92	1.69	-0.11 1.56	3.52 4.73	0.12 1.24	4.29 3.93	0.41 0.34	4.10 2.69	4.51 3.21	0.37	12
13	2.77 3.82	0.26 -0.79	-0.35 1.43	3.26 5.04	-0.16 1.65	3.97 4.48	0.24 0.88	4.26 3.06	0.89 -0.16	3.87 2.04	1.21 0.05	4.10 2.69	13
14	2.68 4.00	0.49	-0.08 1.30	3.31 4.38	-0.17 1.37	3.84 3.78	0.14 0.70	4.16 2.60	1.10 -0.43	3.59 1.98	1.41 0.06	3.80 2.54	14
15	-0.77 0.86	2.73 4.13	-0.52 1.40	3.36 4.08	-0.42 0.74	3.64 2.83	0.76 0.78	4.43 2.89	1.27 -0.53	3.48	1.71 0.06	3.61 2.62	15
16	-0.69 0.89	2.59 3.95	-0.34 1.49	3.99 3.69	-0.46 0.53	3.72 2.57	1.66 1.18	5.08 2.85	2.27 3.83	1.62 -0.34	1.88 0.00	3.34 2.74	16
17	-0.85 1.07	2.59 3.89	-0.20 1.67	4.83 4.40	0.04 0.38	4.24 2.40	1.87 0.44	4.51	2.59 3.63	1.29 -0.67	1.70 -0.18	3.28	17
18	-0.57 1.03	2.76 3.56	0.84 1.13	4.55 3.13	0.43 -0.06	4.09 2.32	2.88 4.97	2.19 1.21	2.61 3.56	1.06 -0.77	2.97 3.39	1.59 -0.08	18
19	-0.66 0.89	2.88 3.63	-0.01 0.18	3.91 2.66	0.77 -0.46	3.89	3.50 5.00	2.67 1.64	2.94 3.94	1.34 -0.57	3.21 3.61	1.36 0.04	19
20	-0.63 0.55	3.04 3.27	0.33 0.48	4.32	2.34 4.08	1.07 -0.42	3.88 5.28	3.06 1.77	2.62 3.41	0.41 -0.92	3.60 3.97	1.37 0.38	20
21	-0.53 0.28	3.34 3.21	3.15 4.69	1.04 0.43	2.92 4.85	1.94 0.11	3.88 4.97	2.95 1.77	2.70 3.86	0.38 -0.57	3.86 3.81	0.91 0.13	21
22	-0.24 0.54	3.79	3.38 4.87	1.46 0.35	3.27 4.48	1.78 -0.32	3.68 4.55	2.67 1.40	2.89 3.11	0.10 -0.91	3.70 3.68	0.50 0.31	22
23	3.97 3.75	0.48 -0.25	3.40 4.63	1.61 0.02	2.96 4.28	1.52 -0.54	3.53 4.64	2.45 1.33	2.74 2.90	-0.23 -0.75	3.92 3.61	0.38 0.46	23
24	2.84 3.52	-0.17 -0.56	3.42 4.29	1.58 -0.33	2.87 4.15	1.46 -0.61	3.73 4.45	2.40 1.22	2.98 2.71	-0.39 -0.47	4.06 3.37	0.12 0.58	24
25	2.74 3.54	0.02 -0.84	3.04 4.51	1.66 0.05	2.87 4.04	1.50 -0.57	3.93 4.30	2.39 1.20	3.30 2.74	-0.21 -0.06	4.15 3.39	0.09 0.81	25
26	2.57 3.62	0.21 -0.97	3.36 4.34	1.91 -0.27	3.05 4.12	1.62 -0.22	3.93 3.62	2.01	3.62 2.66	0.01 0.33	4.31 3.50	0.07 1.54	26
27	2.42 3.41	0.29 -1.14	3.06 3.72	1.71	3.44 3.98	1.78	0.78 1.55	3.57 3.06	3.78 2.33	-0.27	4.76 3.48	0.21 1.88	27
28	2.38 3.61	0.59	-0.67 1.47	2.65 3.48	-0.23 1.67	3.35 3.64	0.66 1.35	3.67 2.66	0.99 0.62	4.35 3.42	4.58 2.88	-0.14	28
29	-1.14 0.65	2.32 3.30	-0.57 1.84	3.00 3.49	-0.21 1.84	3.56 3.54	0.79 1.22	3.77 2.28			1.60 0.13	4.39 3.30	29
30	-1.27 0.83	2.19 3.15	-0.32 2.49	3.46 4.46	0.08 1.33	3.40 2.67	0.94 0.98	3.93 2.08			2.54 0.48	4.98 3.31	30
31	-1.13 1.32	2.42 3.25			0.12 1.33	3.60 2.40	1.23 0.82	4.10 2.40			1.99 -0.05	3.96 3.39	31
MAXIMUM	4.13		5.04		5.38		5.55		4.80		5.01		MAXIMUM
MINIMUM	-1.27		-0.96		-0.64		-0.01		-0.92		-0.41		MINIMUM

LOCATION: LAT. 38 06 18, LONG. 121 41 57, NE SEC. 13, T3N, R2E,  
ON SHERMAN ISLAND, 0.1 MILE EAST OF STATE HIGHWAY 160 BRIDGE,  
3.6 MILES SOUTH OF RIO VISTA, IN TIDAL ZONE. MAXIMUM GAGE  
HEIGHT DOES NOT INDICATE MAXIMUM DISCHARGE.

PERIOD OF RECORD: APRIL 1929 TO DATE



TABLE R-12 (CONTINUED)

## DAILY TIDES

091160 THREE MILE SLOUGH AT SACRAMENTO RIVER  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	2.04 0.74	4.35 4.26	NR	NR	4.62 3.07	-0.18 1.00	4.61 2.99	-0.53 1.58	4.34 2.95	-0.53 1.16	3.96 3.49	-0.08 0.61	01
02	2.19 1.42	4.48	NR	NR	4.65 3.19	-0.32 1.20	4.61 3.02	-0.60 1.54	4.32 3.25	-0.39 1.32	3.86 3.67	0.12 0.61	02
03	4.61 4.48	2.26 1.68	4.00 3.11	-0.24 0.26	4.63 3.24	-0.53 1.44	4.62 3.12	-0.47 1.55	4.45 3.38	-0.02 1.16	3.72 3.79	0.28 0.46	03
04	4.73 4.47	2.04 1.78	4.33 3.23	-0.26 0.65	4.67 3.18	-0.59 1.38	4.50 3.01	-0.64 1.29	4.25 3.40	-0.08 1.01	3.52 3.81	0.35 0.24	04
05	5.14 4.95	2.28 2.55	4.50 3.26	-0.36 1.01	4.29 3.16	-0.84 1.60	4.32 3.20	-0.64 1.44	4.01 3.46	-0.08 0.75	3.20 3.85	0.32	05
06	5.53 4.40	2.14 2.10	4.53 3.24	-0.48 1.22	4.30 3.20	-0.84 1.65	4.31 3.28	-0.50 1.32	3.52 3.49	-0.26	0.13 0.64	2.99 1.97	06
07	5.01 4.10	1.51 2.09	4.49 3.13	-0.59 1.29	4.21 3.22	-0.79 1.63	3.98 3.22	-0.58 0.95	0.61 0.05	3.32 3.72	0.06 1.23	2.94 4.21	07
08	5.04 4.39	1.44 2.53	4.41 3.27	-0.53 1.73	3.97 3.45	-0.88 1.81	3.48 3.31	-0.64	0.61 0.05	2.98 3.84	0.13 1.54	2.78 4.30	08
09	5.14 3.83	1.40 2.16	4.36 3.29	-0.50 1.77	3.88 3.46	-0.55	0.93 -0.55	3.26 3.39	0.63 0.72	2.94 4.20	-0.05 1.64	2.81 4.24	09
10	4.32 3.09	0.61 1.99	3.91 2.95	-0.87	1.76 -0.43	3.49 3.60	0.89 -0.37	2.91 3.57	0.67 1.09	2.66 4.37	-0.20 1.68	2.89 4.31	10
11	3.99 2.95	0.47	1.66 -0.91	3.48 3.00	1.74 -0.14	3.17 3.67	0.54 -0.34	2.25 3.59	0.33 1.54	2.61 4.59	-0.35 1.35	4.30 4.43	11
12	2.07 0.30	3.66 2.88	1.90 -0.62	3.29 3.08	1.45 -0.01	2.73 3.77	0.15 0.09	1.95 3.72	0.14 1.87	2.91 4.71	-0.10 1.48	3.61	12
13	2.15 0.24	3.32 2.84	1.49 -0.72	2.39 2.98	1.02 0.29	2.44 3.91	-0.19 0.62	1.93 4.05	0.01 1.68	2.99 4.63	4.80 3.76	0.19 1.15	13
14	2.01 0.14	2.98 3.06	1.17 -0.44	2.18 3.35	0.35 0.57	2.20 3.96	-0.40 1.07	2.15 4.36	-0.49 1.24	2.92	4.59 3.76	0.03 0.59	14
15	1.90 0.24	2.95 3.17	0.80 -0.09	2.20 3.43	-0.22 0.86	2.36 4.27	-0.49 1.49	2.53 4.55	4.68 3.15	-0.44 1.06	4.32 3.90	0.00 0.36	15
16	1.53 0.23	2.79	0.24 0.17	1.98	-0.36 1.14	2.62	-0.61 1.44	2.69	4.65 3.20	-0.48 0.66	4.13 4.09	0.13 0.11	16
17	3.37 3.26	1.47 0.86	3.68 2.30	-0.13 0.24	4.60 2.94	-0.49 1.51	4.75 2.91	-0.67 1.33	4.44 3.26	-0.58 0.35	3.83 4.15	0.14 0.07	17
18	3.86 3.23	0.95 0.32	3.65 2.31	-0.68 0.36	4.92 3.25	-0.38 1.56	4.81 2.97	-0.73 1.06	4.15 3.52	-0.56 0.31	3.72 4.34	0.45	18
19	3.65 3.00	0.36 0.50	3.85 2.51	-0.81 0.58	5.04 3.18	-0.71 1.40	4.75 3.10	-0.69 0.77	3.92 3.51	-0.63 -0.15	0.20 0.73	3.57 4.45	19
20	3.90 3.12	0.14 0.59	4.00 2.51	-1.11 0.65	4.89 3.16	-0.88 1.18	4.62 3.34	-0.60 0.66	3.42 3.72	-0.57	0.11 0.98	3.30 4.35	20
21	4.06 3.20	-0.16 0.85	4.18 2.65	-1.17 0.87	4.91 3.39	-0.75 1.29	4.38 3.54	-0.64 0.57	-0.11 -0.31	3.20 3.89	-0.06 1.24	3.09 4.18	21
22	4.41 3.47	-0.13 1.31	4.37 2.90	-1.09 1.16	4.79 3.55	-0.63 1.13	4.11 3.73	-0.56	-0.10 0.04	2.99 3.97	0.09 1.66	3.09 4.04	22
23	4.69 3.49	-0.20 1.36	4.53 3.01	-0.99 1.18	4.39 3.49	-0.76	0.46 -0.39	3.70 3.90	-0.20 0.44	2.66 4.08	0.03 1.76	3.07 3.90	23
24	NR	NR	4.43 2.95	-1.05 1.05	0.73 -0.90	3.79 3.52	0.32 -0.24	3.26 4.01	-0.12 1.11	2.74 4.28	0.03 1.73	3.24 3.78	24
25	NR	NR	4.09 2.92	-1.25	0.45 -0.98	3.16 3.49	0.02 0.10	2.77 4.18	0.11 1.58	2.98 4.30	0.17 1.63	3.37 3.74	25
26	NR	NR	0.96 -1.16	3.80 3.26	0.06 -0.76	2.57 3.69	0.15 0.89	2.81 4.43	-0.03 1.41	2.91 4.10	-0.16 1.07	3.27	26
27	NR	NR	1.04 -0.72	3.64 3.71	-0.23 -0.36	2.21 3.84	0.11 1.12	2.75 4.35	-0.14 1.48	3.10 4.17	3.75 3.35	-0.09 0.84	27
28	NR	NR	0.96 -0.30	3.35 4.03	-0.54 0.29	2.19 4.10	-0.17 1.43	2.73 4.46	-0.35 1.23	3.05	3.68 3.50	0.03 0.55	28
29	NR	NR	0.42 -0.49	2.78 3.89	-0.61 0.98	2.48 4.48	-0.23 1.48	2.90	4.04 3.10	-0.38 1.10	3.49 3.41	-0.02 0.03	29
30	NR	NR	-0.02 0.07	2.74 4.29	-0.21 1.50	2.95	4.39 2.96	-0.42 1.42	3.99 3.15	-0.37 0.87	3.22 3.37	-0.14 -0.19	30
31			-0.11 0.70	2.95			4.42 2.94	-0.44 1.27	3.94 3.27	-0.31 0.76			31
MAXIMUM	NR		NR		5.04		4.81		4.71		4.80		MAXIMUM
MINIMUM	NR		NR		-0.98		-0.73		-0.63		-0.35		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 6.7 - 12/26/55

ZERO OF GAGE: 1929 TO 1940 0.00 USED  
1940 TO 1959 0.00 USCGS  
1959 -10.00 USCGS  
1964 -10.24 USCGS  
1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

891110. SACRAMENTO RIVER AT COLLINSVILLE  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	1.95 3.38	4.81 5.81	1.54 3.90	4.82 5.12	3.00 4.28	6.09 5.05	2.77 3.20	6.12 3.90	3.75 2.36	6.36 4.36	4.26 2.94	6.76 5.19	01
02	1.83 3.45	4.54 5.42	1.44 3.60	4.64 4.78	2.09 3.38	5.30 4.21	2.58 2.66	5.73 4.13	3.63 1.83	6.31 1.94	4.33 2.29	6.73 5.21	02
03	1.54 3.70	4.39 5.18	1.51 3.05	4.66 4.32	2.09 2.94	5.40 4.11	3.37 2.76	6.67 4.63	4.70 6.49	3.75 1.73	4.20 1.84	6.52 1.84	03
04	1.49 3.72	4.44 5.02	1.31 2.54	4.67 4.15	2.48 2.66	5.83 4.29	3.82 2.53	6.96 1.94	5.00 6.86	3.66 1.94	4.92 6.22	3.55 1.66	04
05	1.57 3.63	4.71 5.24	1.47 2.75	5.12 4.70	2.83 2.23	6.06 4.44	5.30 7.57	4.48 2.63	5.24 6.69	3.29 1.70	5.24 6.44	3.29 1.87	05
06	1.97 3.52	5.14 5.52	2.12 1.91	5.40 4.49	3.01 1.87	6.24 1.87	5.54 7.56	4.37 2.46	5.04 6.57	2.81 1.71	5.67 6.79	3.25 2.33	06
07	2.14 2.97	5.27 5.26	2.08 1.84	5.67 1.84	4.59 6.56	3.21 1.79	5.65 7.51	4.22 2.40	5.56 6.50	2.86 1.85	6.26 7.06	3.38 2.52	07
08	1.95 2.53	5.21 1.99	4.65 5.83	2.31 1.58	4.78 6.82	3.40 1.76	6.04 7.62	4.33 2.45	5.72 6.03	2.58 1.74	6.30 6.49	2.89 2.42	08
09	5.25 5.28	1.99 2.22	4.72 6.13	2.66 1.68	4.93 6.72	3.44 1.47	6.02 7.35	3.99 2.34	5.84 5.70	2.41 1.96	6.13 5.75	2.25 2.29	09
10	5.10 5.44	2.08 1.98	4.83 6.35	2.84 1.49	4.87 6.77	3.39 1.56	5.97 6.87	3.58 2.11	6.09 5.28	2.41 2.27	6.24 5.65	2.26 2.69	10
11	5.15 5.77	2.37 1.97	4.94 6.78	3.50 1.88	5.50 7.42	4.33 2.00	5.88 6.36	3.31 1.94	6.19 4.88	2.34 1.94	6.52 5.61	2.42 3.25	11
12	5.15 5.94	2.60 1.72	5.75 6.97	3.95 1.88	5.58 6.81	3.76 1.88	2.26 3.45	6.35 5.98	2.63 2.52	6.19 4.72	6.59 5.24	2.42 3.35	12
13	4.90 5.95	2.61 1.53	5.34 7.06	3.72 1.88	1.97 3.85	6.05 6.54	2.40 3.09	6.34 5.12	3.09 2.04	5.96 4.11	6.15 4.73	2.14 1.94	13
14	4.80 6.12	2.82 1.52	2.13 3.59	5.37 6.41	1.97 3.57	5.92 5.84	2.36 2.89	6.23 4.66	3.33 1.77	5.67 4.05	3.57 2.16	5.87 4.59	14
15	4.77 6.20	3.16 1.52	1.69 3.68	5.43 6.11	1.75 2.97	5.71 4.89	3.00 2.95	6.49 4.97	3.49 1.67	5.56 1.67	3.87 2.18	5.70 4.69	15
16	1.59 3.25	4.69 6.04	1.92 3.75	6.05 5.73	1.76 4.64	5.79 4.64	3.88 3.30	7.11 4.95	4.35 5.85	3.76 1.80	4.05 2.11	5.44 4.76	16
17	1.47 3.41	4.68 5.98	2.00 3.93	6.08 6.31	2.30 2.59	6.32 4.45	4.06 2.53	6.58 1.94	4.62 5.69	3.49 1.49	3.87 1.97	5.36 1.97	17
18	1.62 3.37	4.84 5.67	2.99 3.94	6.51 5.13	2.65 2.17	6.18 4.39	4.95 7.05	4.30 3.14	4.65 5.65	3.31 1.47	5.02 5.50	3.75 2.07	18
19	1.55 3.19	4.97 5.64	2.16 2.33	5.96 4.68	3.04 1.74	5.97 1.74	5.56 7.03	4.66 3.44	5.03 6.01	3.45 1.56	5.27 5.68	3.57 2.18	19
20	1.71 2.84	5.14 5.39	2.49 2.59	6.41 1.74	4.40 6.16	3.33 1.78	5.91 7.32	4.97 3.54	4.69 5.51	2.63 1.29	5.57 5.97	3.51 2.45	20
21	1.81 2.61	5.46 5.36	5.14 6.71	3.14 2.48	5.01 6.92	4.17 2.31	5.80 6.96	4.82 3.43	4.80 5.90	2.63 1.61	5.84 5.79	3.09 2.25	21
22	2.12 2.88	5.94 1.88	5.41 6.92	3.61 2.43	5.35 6.54	4.04 1.85	5.66 6.62	4.49 3.09	4.96 5.21	2.31 1.27	5.74 5.71	2.67 2.42	22
23	6.05 5.85	2.83 2.03	5.44 6.66	3.75 2.12	5.01 6.36	3.78 1.64	5.54 6.74	4.28 3.05	4.81 5.00	2.82 1.49	5.94 5.65	2.54 2.61	23
24	4.94 5.62	2.15 1.70	5.47 6.31	3.74 1.74	4.92 6.21	3.69 1.57	5.79 6.55	4.26 2.95	5.07 4.78	1.86 1.75	6.10 5.41	2.26 2.75	24
25	4.84 5.65	2.35 1.46	5.06 6.56	3.79 2.11	4.93 6.10	3.73 1.60	6.00 6.39	4.23 2.94	5.41 4.81	2.82 2.15	6.22 5.45	2.25 2.99	25
26	4.67 5.74	2.54 1.35	5.39 6.38	4.08 1.85	5.12 6.20	3.85 1.99	5.97 5.68	3.87 2.56	5.73 4.73	2.21 2.55	6.38 5.53	2.21 3.73	26
27	4.54 5.55	2.62 1.18	5.12 5.78	3.92 1.46	5.53 6.04	4.00 1.93	5.67 5.15	3.47 2.52	5.89 4.42	1.95 3.25	6.84 5.56	2.36 4.14	27
28	4.50 5.70	2.91 1.17	4.72 5.55	3.67 1.74	5.41 5.70	3.89 1.96	5.73 4.76	3.27 1.94	6.49 5.50	2.88 1.94	6.67 4.95	2.05 3.84	28
29	4.43 5.45	3.05 1.46	1.57 4.04	5.08 5.57	5.61 5.50	3.97 1.94	2.72 3.16	5.87 4.39	5.41 4.81	2.82 2.15	6.47 5.39	2.28 1.94	29
30	1.12 3.20	4.29 5.26	1.87 4.68	5.55 6.54	2.17 3.51	5.43 4.76	2.92 2.93	6.05 4.20	5.41 4.81	2.82 2.15	6.47 5.39	2.28 1.94	30
31	1.18 3.64	4.52 5.36	2.27 3.50	5.66 4.52	2.27 3.50	5.66 4.52	3.25 2.81	6.20 4.48	5.41 4.81	2.82 2.15	6.47 5.39	2.28 1.94	31
MAXIMUM	6.20		7.06		7.42		7.62		6.86		7.06		MAXIMUM
MINIMUM	1.12		1.31		1.47		2.11		1.27		1.66		MINIMUM

LOCATION: LAT. 38 04 25, LONG. 121 51 18, SW SEC. 27, T3N, R1E,  
0.4 MILE SOUTHWEST OF COLLINSVILLE, 3.3 MILES NORTHEAST  
OF PITTSBURG.

PERIOD OF RECORD: JUNE 1929 TO DATE

TABLE R-12 (CONTINUED)

## DAILY TIDES

891110 SACRAMENTO RIVER AT COLLINSVILLE  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	4.23	6.40	2.60	5.20	1.97	5.11	1.66	5.04	6.36	1.75	6.00	2.21	01
	2.67	6.23	1.93	5.94	3.17		3.80		5.00	3.38	5.54	2.87	
02	4.08	6.52	2.15	5.09	6.69	1.84	6.69	1.67	6.36	1.92	5.91	2.36	02
	3.14		2.10		5.22	3.41	5.09	3.82	5.28	3.48	5.71	2.81	
03	6.58	4.03	6.13	1.96	6.71	1.67	6.66	1.77	6.42	2.19	5.77	2.50	03
	6.52	3.35	5.19	2.43	5.26	3.62	5.14	3.69	5.39	3.35	5.84	2.71	
04	6.77	3.81	6.36	1.93	6.71	1.60	6.55	1.63	6.24	2.14	5.60	2.66	04
	6.55	3.46	5.27	2.82	5.21	3.62	5.08	3.59	5.42	3.20	5.91	2.53	
05	7.20	3.95	6.48	1.81	6.37	1.34	6.42	1.62	6.00	2.16	5.29	2.65	05
	6.99	4.13	5.33	3.25	5.14	3.78	5.23	3.69	5.53	3.01	5.97	2.41	
06	7.53	3.80	6.64	1.73	NR	NR	6.37	1.74	5.59	2.02	5.08	2.95	06
	6.43	3.79	5.34	3.42			5.27	3.60	5.54	2.88	6.05		
07	7.11	3.19	6.61	1.64	6.29	1.47	6.06	1.65	5.36	2.28	2.28	4.98	07
	6.21	3.88	5.21	3.53	5.39	3.86	5.19	3.26	5.74		3.45	6.25	
08	7.20	3.15	6.55	1.64	6.10	1.45	5.63	1.70	2.86	5.03	2.34	4.76	08
	6.41	4.40	5.31	3.86	5.51	4.05	5.40	3.28	2.37	5.86	3.73	6.36	
09	7.30	3.15	6.44	1.61	5.99	1.72	5.38	1.77	2.82	4.92	2.17	4.81	09
	6.00	4.05	5.26	3.93	5.53		5.44		2.93	6.18	3.94	6.29	
10	6.45	2.39	6.00	1.33	3.92	5.58	3.10	4.97	2.74	4.64	2.04	4.97	10
	5.18	3.94	4.99	3.84	1.81	5.63	1.93	5.57	3.25	6.31	3.98	6.39	
11	6.13	2.35	5.55	1.32	3.88	5.17	2.78	4.30	2.48	4.62	1.96	5.20	11
	5.05	4.11	5.03		2.00	5.68	1.97	5.61	3.72	6.52	3.69	6.51	
12	5.80	2.22	4.06	5.28	3.49	4.70	2.40	4.02	2.29	4.87	2.11	5.61	12
	4.97		1.54	5.08	2.15	5.73	2.40	5.77	4.00	6.69	3.65	6.73	
13	4.19	5.49	3.71	4.48	3.05	4.41	2.07	4.01	2.18	5.01	2.32	5.79	13
	2.28	4.91	1.47	4.99	2.43	5.93	2.90	6.13	3.91	6.71	3.29		
14	4.13	5.15	3.37	4.22	2.44	4.23	1.85	4.22	1.79	5.01	6.61	2.27	14
	2.22	5.11	1.73	5.33	2.73	6.00	3.34	6.41	3.53	6.73	5.81	2.80	
15	3.99	5.00	3.01	4.22	1.95	4.35	1.71	4.54	1.81	5.18	6.36	2.25	15
	2.30	6.21	2.07	5.42	3.10	6.35	3.65	6.60	3.28		5.95	2.56	
16	3.65	4.95	2.43	4.07	1.87	4.71	1.58	4.73	6.67	1.74	6.17	2.40	16
	2.33	5.43	2.28	5.73	3.40	6.68	3.67	6.78	5.21	2.89	6.16	2.36	
17	3.55	5.25	2.08	4.36	NR	NR	1.58	4.93	6.51	1.66	5.92	2.47	17
	2.78		2.43	5.77			3.56		5.30	2.62	6.23	2.29	
18	5.94	3.07	1.55	4.37	6.99	1.78	6.86	1.56	6.19	1.65	5.78	2.76	18
	5.29	2.47	2.53		5.31	3.81	5.03	3.31	5.54	2.52	6.40	2.30	
19	5.69	2.45	5.93	1.35	7.14	1.58	6.84	1.60	5.98	1.70	5.58	2.98	19
	5.04	2.63	4.54	2.78	5.26	3.65	5.17	3.04	5.59	2.15	6.48		
20	5.90	2.22	6.10	1.18	6.98	1.40	6.71	1.67	5.52	1.79	2.27	5.33	20
	5.13	2.75	4.57	2.84	5.25	3.46	5.38	2.91	5.80	2.18	3.25	6.40	
21	6.07	1.96	6.29	1.17	7.01	1.51	6.44	1.66	5.32	2.06	2.22	5.15	21
	5.22	2.99	4.71	3.11	5.47	3.50	5.58	2.82	5.98		3.54	6.21	
22	6.42	1.92	6.47	1.18	6.86	1.58	6.18	1.80	2.19	5.07	2.25	5.13	22
	5.41	3.45	4.94	3.37	5.60	3.36	5.81	2.72	2.39	6.06	3.94	6.08	
23	6.74	1.91	6.64	1.20	6.51	1.45	5.79	1.95	2.07	4.76	2.22	5.12	23
	5.51	3.61	5.11	3.37	5.55		5.99		2.78	6.15	4.05	5.96	
24	6.75	1.72	6.53	1.19	2.99	5.90	2.63	5.36	2.16	4.80	2.21	5.29	24
	5.35	3.61	5.04	3.27	1.32	5.59	2.14	6.11	3.40	6.28	3.96	5.81	
25	6.55	1.49	6.20	1.17	2.69	5.19	2.38	4.88	2.30	5.02	2.23	5.36	25
	5.20	3.71	5.02	3.21	1.28	5.57	2.41	6.24	3.86	6.30	3.70	5.75	
26	6.40	1.39	5.94	1.17	2.29	4.67	2.32	4.82	2.15	4.97	2.06	5.31	26
	4.87	3.57	5.38		1.53	5.79	3.10	6.45	3.72	6.13	3.31	5.82	
27	5.84	1.18	3.27	5.72	2.02	4.32	2.29	4.71	1.99	5.11	2.20	5.44	27
	4.86		1.50	5.82	1.92	5.96	3.36	6.38	3.67	6.17	3.08		
28	3.56	5.58	3.17	5.46	1.75	4.33	2.01	4.72	1.92	5.06	5.72	2.25	28
	1.21	5.05	1.77	6.12	2.62	6.22	3.60	6.40	3.42	6.12	5.57	2.78	
29	3.40	5.24	2.70	4.88	1.68	4.56	1.90	4.88	1.89	5.13	5.55	2.22	29
	1.27	5.22	1.73	5.99	3.23	6.55	3.63	6.37	3.30		5.52	2.34	
30	3.03	5.15	2.19	4.82	1.97	4.99	1.79	4.95	6.09	1.91	5.34	2.20	30
	1.59	5.64	2.29	6.36	3.63	6.69	3.62		5.20	3.09	5.49	2.11	
31			2.10	5.02			6.40	1.79	6.03	1.98			31
			2.83	6.59			4.97	3.48	5.35	2.95			
MAXIMUM	7.53		6.64		NR		6.86		6.73		6.73		MAXIMUM
MINIMUM	1.18		1.17		NR		1.56		1.65		1.96		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 9.2 - 4/6/58

ZERO OF GAGE: 1929 0.00 USED  
1929 -3.05 USCGS  
1964 -3.54 USCGS  
1964 TO DATE -3.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

B95820 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	1.41 1.80	2.31 3.05	2.98 3.38	3.54 3.65	2.92 3.27	4.07	NR	NR	NR	NR	3.15 4.36	2.93 2.71	01
02	1.27 1.67	2.14 2.79	2.96 3.23	3.38	3.44 3.47	2.40 2.77	NR	NR	NR	NR	3.03 4.16	2.83	02
03	1.04 1.81	2.10 2.81	3.44 3.17	2.75 2.89	2.85 3.39	2.21 2.63	NR	NR	NR	NR	2.75 3.41	3.44 4.89	03
04	1.19 1.97	2.23	3.00 2.94	2.44 2.56	2.82 3.62	2.32	NR	NR	NR	NR	3.85 4.02	4.20 4.74	04
05	NR	NR	2.71 2.91	2.25	2.65 2.50	2.92 3.79	5.12 5.43	5.50 6.52	NR	NR	3.84 4.00	4.28 4.69	05
06	NR	NR	2.48 2.33	2.80 3.20	2.63 2.61	2.96 3.91	5.47 5.60	5.74 6.61	NR	NR	3.68 3.94	4.28 4.92	06
07	NR	NR	2.44 2.33	2.72 3.52	2.62 2.70	2.99 4.15	5.55 5.68	5.85 6.65	NR	NR	4.04 4.41	4.80 5.33	07
08	NR	NR	2.45 2.22	2.70 3.39	2.70 2.85	3.14 4.27	5.66 5.77	5.94 6.71	NR	NR	4.61 4.93	5.32 5.35	08
09	NR	NR	2.23 2.24	2.73 3.65	2.73 2.89	3.27 4.18	5.85 6.13	6.29 6.91	NR	NR	4.76 4.69	5.05 5.13	09
10	NR	NR	2.28 2.34	2.81 3.72	2.58 2.81	3.08 4.29	6.16 6.22	6.47 6.75	NR	NR	4.75 4.75	5.28 5.09	10
11	NR	NR	2.37 2.60	3.06 4.07	2.63 3.32	3.47 4.92	6.13 6.20	6.46 6.62	NR	NR	4.65 4.56	5.29 4.85	11
12	NR	NR	2.58 3.00	3.49 4.42	2.97 3.20	3.75 4.48	6.16 6.20	6.65 6.54	NR	NR	4.46 4.30	5.24	12
13	NR	NR	2.69 2.83	3.28 4.40	2.90 3.34	4.05 4.56	6.07 6.00	6.53	NR	NR	4.58 4.99	4.25 4.04	13
14	NR	NR	2.76 2.83	3.35 4.07	2.88 2.94	3.62 3.82	6.06 5.93	5.55 5.37	NR	NR	4.29 4.78	4.08 3.81	14
15	NR	NR	2.56 2.81	3.33 3.90	2.44 2.54	3.35	5.43 5.62	5.01 4.99	3.63A 4.36A	4.36A	4.12 4.58	3.98	15
16	NR	NR	2.50 2.69	3.46	3.09 3.44	2.25 2.71	5.20 6.17	5.12	3.60 3.93	3.96 4.50	3.37 3.38	3.62 4.00	16
17	2.39 2.50	2.75 3.72	3.60 3.32	2.28 2.70	3.09 3.90	2.53	5.34 5.30	5.46 5.93	3.59 3.71	3.85 4.18	3.02 3.20	3.43 3.81	17
18	2.57 2.86	3.13	3.96 4.39	2.73 2.99	2.92 2.73	3.18 4.00	5.15 5.28	5.38 6.24	3.14 3.19	3.37 3.77	2.88 3.24	3.57 3.94	18
19	3.64 3.31	2.79 3.04	3.27 3.62	2.30	2.81 2.78	3.09 3.87	5.50A 6.77A	6.77A	2.76 3.10	3.24 3.98	2.83 3.09	3.53 3.81	19
20	3.69 3.49	2.92 3.14	2.41 2.23	2.80 3.68	2.74 2.88	3.10 4.05	7.14A 6.00A	6.00A	2.70 2.65	3.03 3.41	2.73 3.27	3.70 4.12	20
21	3.56 3.60	2.95	2.50 2.55	3.25 4.12	2.83 3.27	3.41 4.41	6.41A 7.01A	7.01A	2.41 2.54	2.86 3.58	3.03 3.14	3.90 3.92	21
22	3.10 2.87	3.49 3.73	2.64 2.86	3.45 4.40	3.11 3.46	3.73 4.45	6.20A 6.65A	6.65A	2.62 2.71	3.08 3.34	2.82 2.85	3.55 3.70	22
23	3.04 3.00	3.92 3.81	2.83 3.05	3.60 4.38	3.11 3.41	3.64 4.35	6.25A 7.09A	7.09A	2.58 2.57	3.01 3.11	NR	NR	23
24	2.72 2.50	3.08 3.44	2.62 3.04	3.51 4.22	3.07 3.33	3.61 4.24	6.63 6.73	6.89 7.09	2.52 2.54	3.03 3.01	NR	NR	24
25	2.47 2.61	2.95 3.59	2.42 2.70	3.21 3.87	2.92 3.30	3.55 4.22	6.60A 7.28A	7.28A	2.50 2.64	3.39 2.86	NR	NR	25
26	2.73 2.83	3.07 3.71	2.45 2.97	3.49 4.07	2.93 3.32	3.61 4.00	6.95A 7.33A	7.33A	2.44 2.60	3.54	NR	NR	26
27	2.85 2.95	3.15 3.64	2.41 2.79	3.16 3.71	2.93 3.45	3.67 4.25	7.29A 7.00A	7.00A	2.80 3.70	2.46 2.52	NR	NR	27
28	2.99 3.10	3.27 3.83	2.20 2.71	2.94 3.65	3.25 3.88	4.12 4.58	7.90A 6.81A	6.81A	2.71 4.01	2.58 2.62	NR	NR	28
29	2.90 2.92	3.11 3.56	2.32 3.04	3.33 3.71	NR	NR	6.82A 6.40A	6.40A			NR	NR	29
30	2.61 2.63	2.84 3.37	2.41 3.15	3.41 4.27	NR	NR	6.52A 7.04A	7.04A			NR	NR	30
31	2.57 3.03	3.08 3.66			NR	NR	NR	NR			NR	NR	31
MAXIMUM	NR		4.42		NR		NR		NR		NR		MAXIMUM
MINIMUM	NR		2.20		NR		NR		NR		NR		MINIMUM

NR - NO RECORD

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 37 47 12, LONG. 121 18 21, SW SEC. 3, T2S, R6E,  
ON OLD U.S. HWY 50 BRIDGE, 3.0 MILES SW OF LATHROP.

PERIOD OF RECORD: 1920 TO DATE

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895820 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	NR	NR	3.72 3.67	3.09 2.95	4.70 4.06	3.72 3.86	3.24 2.24	1.21 1.77	1.32 0.74	2.72 1.83	NR	NR	01
02	NR	NR	3.84 3.71	3.14	4.89 4.26	3.86	3.20 2.34	1.08	1.26 0.83	2.69 2.12	NR	NR	02
03	NR	NR	3.24 3.22	4.07 3.74	4.10 4.11	4.98 4.64	1.77 1.03	3.09 2.35	1.51 1.00	2.49 2.25	NR	NR	03
04	NR	NR	3.27 3.20	4.29 3.75	4.42 4.13	5.09 4.52	NR	NR	1.50 1.01	2.80 2.26	2.80 1.97	3.26 3.47	04
05	NR	NR	3.26 3.22	4.56 3.88	4.27 3.87	4.82 4.36	NR	NR	1.45 1.10	2.66 2.36	1.97 1.47	3.01 3.56	05
06	NR	NR	3.47 3.34	4.71 3.69	4.14 3.80	4.78 4.28	NR	NR	1.37 0.80	2.27 2.21	1.91 1.77	2.79 3.08	06
07	NR	NR	3.36 3.07	4.42 3.60	4.09 3.80	4.73	NR	NR	1.16 0.86	2.06 2.30	1.65 2.14	2.84 3.64	07
08	NR	NR	3.09 2.79	4.20	4.40 4.53	4.12 3.58	NR	NR	1.13 0.77	1.89	1.88 2.40	2.92	08
09	NR	NR	3.72 4.38	3.41 3.09	4.14 4.55	4.04 3.77	NR	NR	2.33 1.95	1.08 1.12	4.12 2.93	1.95 2.44	09
10	NR	NR	3.84 4.32	3.59 3.32	4.35 4.77	4.24 4.21	NR	NR	2.85 1.96	1.28 1.33	3.91 2.92	1.79 2.36	10
11	NR	NR	4.00 4.27	3.83 3.57	4.77 4.88	4.64 4.28	NR	NR	2.98 1.82	1.12 1.42	3.94 2.73	1.90 2.15	11
12	NR	NR	4.18 4.39	4.10 3.76	4.79 4.28	4.21 3.62	NR	NR	3.24 2.23	1.24 1.83	3.62 3.56	2.12 2.79	12
13	NR	NR	4.16 4.08	4.00 3.50	4.35 3.53	3.50 2.97	2.54 1.61	0.99 1.12	3.42 2.18	1.08 1.73	4.22 3.74	2.47	13
14	NR	NR	3.97 3.81	3.73 3.37	4.08 3.19	3.06 2.86	2.78 1.84	1.15 1.47	3.12 2.06	0.83 1.49	2.78 2.53	4.07 3.81	14
15	NR	NR	4.05 3.98	3.73 3.65	3.95 2.80	2.43 2.52	3.15 2.06	1.27 1.66	2.92 2.20	0.94 1.55	2.87 2.71	3.99 3.82	15
16	NR	NR	4.53 4.15	4.05 3.90	3.87 3.15	2.55 3.04	3.21 2.09	1.10 1.65	2.93 2.36	1.10	2.78 2.71	3.92 3.75	16
17	NR	NR	4.76 4.30	4.10 3.98	4.49 3.77	3.33 3.66	3.31 2.07	1.04 1.57	1.49 1.07	2.82 2.23	2.53 3.04	3.53 4.05	17
18	NR	NR	4.69 4.07	3.97	4.93 4.01	3.46	3.15 1.96	0.97	1.36 1.20	2.66 2.37	3.11 3.18	3.76 4.33	18
19	NR	NR	3.86 3.75	4.48 3.96	3.70 3.11	4.77 3.68	1.35 0.82	2.97 2.00	1.42 1.13	2.61 2.38	3.45 3.58	3.92 4.59	19
20	4.12 4.21	4.67 4.52	3.80 3.76	4.55 3.89	3.35 2.74	4.55 3.40	1.24 0.77	2.84 2.00	1.31 1.10	2.34 2.43	3.78 3.85	4.10 4.63	20
21	4.19 4.08	4.74 4.30	3.73 3.50	4.46 3.85	2.89 2.20	4.07 3.13	1.19 0.92	2.65 2.15	1.28 1.07	2.20 2.57	3.69 3.53	3.85	21
22	3.94 3.76	4.62 4.33	3.55 2.97	4.58 3.36	2.53 2.06	3.83 3.04	1.32 0.96	2.61 2.23	1.24 1.13	2.10	4.51 3.83	3.51 3.59	22
23	3.90 3.64	4.94 4.03	3.00 2.39	4.36 3.09	2.32 1.70	3.46 2.76	1.18 0.76	2.25	2.68 2.04	1.24 1.25	4.31 3.87	3.48 3.66	23
24	3.53 3.00	4.47 3.60	2.61 2.03	4.11 2.56	2.01 1.59	3.01	2.16 1.91	0.96 0.61	2.83 2.06	1.15 1.47	4.39 3.86	3.43 3.59	24
25	3.13 2.67	4.19	2.64 1.63	3.41	2.74 2.61	1.86 1.30	2.16 1.66	0.68 0.67	3.14 2.48	1.39 2.01	4.29 3.99	3.45 3.68	25
26	3.37 4.04	2.98 2.42	2.51 3.07	1.95 1.46	2.60 2.24	1.56 1.24	2.38 1.81	0.88 1.13	3.40 2.56	1.58 2.04	4.27 3.89	3.47 3.58	26
27	3.09 3.62	2.72 2.16	2.58 2.10	2.00 1.60	2.59 1.96	1.37 1.09	2.88 2.00	1.06 1.35	3.31 2.83	1.52 2.20	4.17 3.95	3.48	27
28	3.01 3.73	2.76 2.68	3.17 3.00	2.11 1.62	2.55 1.79	1.11 1.13	2.90 1.85	0.94 1.44	3.42 2.80	1.47 2.06	3.57 3.49	4.08 4.08	28
29	3.34 3.65	3.12 2.82	3.13 2.88	2.14 2.15	2.66 1.81	0.89 1.27	2.96 1.95	0.95 1.51	3.27 2.81	1.45	3.60 3.46	4.07 3.97	29
30	3.51 3.64	3.10 2.82	3.55 3.31	2.63 2.85	3.01 2.23	1.27 1.71	2.91 2.82	0.85 1.52	2.84 1.55	3.25 2.87	3.49 3.49	3.91 3.93	30
31			4.10 3.81	3.27 3.55			2.92 1.85	0.80	1.99 1.52	3.10 2.82			31
MAXIMUM	NR		4.76		5.09		NR		3.42		NR		MAXIMUM
MINIMUM	NR		1.46		0.89		NR		0.74		NR		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 24.4 - 12/10/50

ZERO OF GAGE: 1920 TO 1943 5.16 USED  
1943 0.00 USCGS  
1964 -0.17 USCGS  
1964 TO DATE 0.00 USCGS

TABLE B-12 (CONTINUED)

## DAILY TIDES

895400 OLD RIVER AT HEAD  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	1.00 1.48	2.13 2.93	0.33 1.70	2.52 2.65	2.18 2.63	3.63 2.97	3.49A 4.69A	5.38 5.79	5.15	2.86 4.20	2.50 2.15		01
02	0.87 1.37	1.96 2.64	0.15 1.41	2.15	1.55 2.03	2.98 2.25	3.29A 4.49A	4.91 4.99	5.15 5.62	2.69 3.96	2.40 2.16		02
03	0.54 1.41	1.85 2.54	2.36 1.84	0.00 0.87	1.34 1.85	2.88	3.45 3.36	3.67 4.45	4.73 4.87	5.08 5.52	3.08 4.56	2.89	03
04	0.51 1.50	1.90	1.80 1.54	-0.35 0.35	2.26 3.14	1.49 1.85	3.56 3.80	3.95 5.17	4.46 4.57	4.84 5.46	3.03 3.26	3.67 4.30	04
05	2.48 1.95	0.70 1.30	1.30 1.97	-0.45 0.33	2.37 3.33	1.70	4.06 4.50	4.71 6.00	4.31 4.40	4.81 5.36	2.96 3.21	3.74 4.29	05
06	2.53 2.15	0.43 1.29	2.09 2.66	0.01	1.81 1.83	2.40 3.46	4.41 4.63	4.95 6.07	4.12 4.15	4.58 5.17	2.88 3.18	3.80 4.52	06
07	2.41 1.79	0.30 0.78	0.18 0.16	2.02 2.66	1.77 1.93	2.43 3.71	4.49 4.72	5.07 6.11	3.99 4.00	4.61 4.93	3.20 3.61	4.30 4.83	07
08	1.92 2.27	0.29	0.10 0.16	1.26 2.45	1.85 2.10	2.60 3.84	4.59 4.78	5.15 6.16	3.73 3.66	4.41 4.30	3.70 4.01	4.72 4.74	08
09	0.73 0.53	2.18 2.38	-0.03 0.49	2.13 2.95	1.89 2.17	2.78 3.75	4.73 5.04	5.45 6.22	3.39 3.39	4.07 4.16	3.76 3.62	4.26 4.44	09
10	0.65 0.43	1.97 2.44	0.06 0.67	2.01 2.90	1.75 2.08	2.55 3.86	4.97 5.07	5.57 5.97	3.26 3.23	4.05 3.85	3.71 3.72	4.58 4.40	10
11	0.44 0.59	1.96 2.66	0.06 1.11	2.46 3.21	1.81 2.70	3.00 4.57	4.89 5.00	5.52 5.75	3.05 3.00	3.95 3.50	3.67 3.60	4.71 4.20	11
12	0.53 0.74	2.06 2.79	0.48 1.72	2.66 3.83	2.19 2.52	3.32 4.09	4.89 5.08	5.74 5.62	2.74 2.68	3.78	3.59 3.42	4.75 3.94	12
13	0.38 0.62	1.79 2.66	0.56 1.45	2.77 3.82	2.10 2.66	3.64 4.19	4.81 4.83	5.66 5.09	3.29 3.88	2.83 2.73	3.38 3.11	4.46	13
14	0.19 0.68	1.61 2.48	0.74 1.37	2.86 3.38	2.12 2.45	3.36 3.64	4.35 4.26	5.09	3.16 3.83	2.94 2.72	3.61 4.26	3.22 2.88	14
15	0.11 1.07	1.86 3.14	0.33 1.36	2.64 3.19	1.84 1.99	3.10	4.51 4.94	3.93 3.95	3.15 3.79	3.02	3.44 4.09	3.19 2.59	15
16	0.23 1.01	2.37 3.50	0.21 1.54	2.68 3.06	2.84 3.17	1.59 2.09	4.42 5.61	4.08	2.68 3.16	3.30 3.96	2.93 3.57	2.80 2.25	16
17	0.04 1.02	1.94	0.64 1.66	2.67	2.75 3.62	1.84 2.28	4.29 4.27	4.59 5.23	2.74 2.96	3.24 3.72	2.91 3.45	2.65	17
18	3.18 2.56	0.20 1.17	3.39 4.04	1.42 1.76	2.79 3.71	2.06	4.04 4.28	4.52 5.66	2.37 2.51	2.82 3.36	2.14 2.66	3.12 3.62	18
19	2.85 2.65	0.19 1.31	2.48 2.99	0.77	2.14 2.12	2.68 3.56	4.42 4.81	4.96 6.07	2.04 2.53	2.80 3.71	2.13 2.53	3.20 3.55	19
20	2.81 2.78	0.31 1.04	0.87 0.67	2.28 3.22	2.02 2.26	2.67 3.74	4.99 5.35	5.49 6.40	2.02 2.01	2.64 3.13	2.07 2.68	3.43 3.80	20
21	2.42 2.39	0.38 0.84	1.49 1.77	2.83 3.76	2.11 2.74	3.03 4.16	5.20 5.46	5.70 6.23	1.71 1.89	2.45 3.31	2.40 2.54	3.62 3.53	21
22	2.36 2.74	0.50	1.89 2.16	3.03 4.01	2.43 2.89	3.38 4.16	5.05 5.10	5.47 5.84	1.92 2.02	2.64 2.97	2.17 2.20	3.22 3.33	22
23	1.09 1.05	3.05 3.02	2.04 2.34	3.17 3.99	2.39 2.81	3.24 4.03	4.98 5.30	5.48 6.19	1.82 1.87	2.51 2.65	2.25 2.30	3.56 3.39	23
24	0.55 0.40	2.50 2.54	1.83 2.35	3.08 3.82	2.33 2.74	3.16 3.87	5.31 5.47	5.83 6.14	1.76 1.80	2.57 2.60	2.32 2.16	3.45 3.18	24
25	0.18 0.52	1.94 2.60	1.63 2.12	2.81 3.47	2.25 2.71	3.10 3.82	5.33 5.63	5.96 6.26	1.79 1.95	3.07 2.43	2.28 2.26	3.59 3.27	25
26	0.18 0.70	1.89 2.66	1.68 2.34	3.09 3.68	2.23 2.76	3.22 3.68	5.54 5.79	6.02 6.18	1.79 1.97	3.29 2.41	2.44 2.28	3.92 3.40	26
27	0.15 0.67	1.95 2.57	1.61 2.13	2.71 3.30	2.23 2.88	3.28 3.94	5.55 5.66	6.05 5.92	1.84 1.88	3.47	2.87 3.02	4.34 3.77	27
28	0.11 0.90	2.60 2.53	1.36 2.01	2.42 3.20	2.51 3.25	3.68 4.07	5.40 5.43	5.91 5.60	2.29 2.06	2.06	3.39 3.21	4.43	28
29	0.20 1.03	1.72 2.58	1.48 2.39	2.87 3.25	3.22 4.15	4.35 4.71	5.11 5.12	5.69			3.88 4.59	3.63 3.56	29
30	-0.14 0.85	1.66 2.44	1.58 2.61	3.00 3.91	3.88 4.01	4.61 4.19	5.29 5.88	5.07 5.36			4.26 5.14	4.11 3.80	30
31	-0.20 1.34	1.82 2.71			3.44 3.72	4.28	5.49 6.12	5.31 5.22			4.45 4.63	4.07 3.69	31
MAXIMUM	3.50		4.04		4.71		6.40A		5.79		5.14		MAXIMUM
MINIMUM	-0.20		-0.45		1.34		3.29A		1.71		2.07		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 37 48 27, LONG. 121 19 44, NE SEC. 32, T1S, R6E,  
500 FEET BELOW SAN JOAQUIN RIVER, 3.0 MILES WEST  
OF LATHROP.

PERIOD OF RECORD: 1972 TO DATE

TABLE 8-12 (CONTINUED)  
DAILY TIDES  
895400 OLO RIVER AT HEAD  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	4.22 4.84	4.03 4.13	3.30 3.26	2.36 2.18	4.21 3.35	2.81 2.99	3.06 2.03	0.79 1.51	2.50 1.63	0.36	1.49 1.22	2.64 2.53	01
02	5.07 5.39	4.65	3.41 3.20	2.32 2.41	4.37 3.50	2.92 3.18	3.03 2.18	0.69	1.02 0.48	2.48 1.90	1.47 1.40	2.69 3.03	02
03	4.61 5.02	5.48 5.85	3.61 3.25	2.37	4.38 3.95	3.05	1.54 0.68	2.93 2.20	1.27 0.73	2.67 2.03	1.70 1.55	3.19 3.08	03
04	5.22 5.38	6.06 5.94	2.48 2.44	3.87 3.25	3.52 3.07	4.46 3.80	1.51 0.56	2.87 1.88	1.25 0.72	2.56 2.04	1.59 1.54	3.06 3.28	04
05	5.16 5.26	5.91 6.09	2.53 2.48	4.24 3.43	3.38 2.85	4.18 3.73	1.21 0.54	2.61 2.10	1.15 0.73	2.41 2.12	1.52 1.40	2.80 3.35	05
06	5.39 5.42	6.15 5.98	2.76 2.52	4.37 3.15	3.32 2.79	4.20 3.63	1.41 0.66	2.70 2.06	1.04 0.44	2.03 1.97	1.43 1.38	2.66 2.89	06
07	5.38 5.31	6.07 5.87	2.67 2.28	4.03 3.19	3.28 2.87	4.14 3.83	1.27 0.53	2.42 2.00	0.85 0.50	1.81 2.06	1.24 1.80	2.66 3.49	07
08	5.36 5.27	6.05 5.99	2.51 2.03	3.88 3.30	3.35 2.59	3.91 3.53	1.09 0.37	2.05 2.05	0.81 0.41	1.64 2.09	1.45 2.05	2.70 3.98	08
09	5.40 5.01	6.07 5.50	2.80 2.29	4.01	3.23 2.80	3.91	1.13 0.45	2.05	0.78 0.81	1.69	1.49 2.08	2.74	09
10	4.92 4.49	5.63 4.90	3.38 3.85	2.94 2.40	3.60 4.08	3.35 3.09	2.03 0.71	1.16 0.71	2.61 1.70	0.94 1.09	3.76 2.72	1.32 2.01	10
11	4.51 4.14	5.27	3.40 3.64	3.08 2.55	3.97 4.04	3.67 3.20	2.23 1.69	1.09 0.63	2.75 1.63	0.80 1.26	3.78 2.43	1.37 1.71	11
12	4.63 5.05	4.32 3.98	3.50 3.70	3.29 2.73	4.11 3.54	3.33 2.67	2.26 1.48	0.89 0.67	3.00 2.01	0.89 1.66	3.39 3.32	1.45 2.25	12
13	4.41 4.63	4.25 3.77	3.43 3.30	3.12 2.47	3.80 2.93	2.74 2.20	2.32 1.34	0.65 0.80	3.24 1.98	0.82 1.51	3.98 3.51	1.77	13
14	4.42 4.61	4.19 3.77	3.26 3.05	2.86 2.40	3.67 2.60	2.31 2.13	2.58 1.56	0.73 1.13	2.93 1.86	0.55 1.23	2.16 1.16	3.77 3.43	14
15	4.38 4.51	4.13 3.63	3.39 3.25	2.86 2.65	3.57 2.29	1.85 1.90	2.95 1.81	0.83 1.36	2.72 1.99	0.58 1.26	1.33 1.05	3.17 3.50	15
16	4.24 4.15	3.80 3.36	3.91 3.34	3.07 2.88	3.53 2.54	1.89 2.31	3.03 1.90	0.68 1.40	2.73 2.14	0.70	1.26 1.18	3.61 2.97	16
17	4.09 4.37	3.62	4.15 3.51	3.08 2.99	4.05 3.14	2.40 2.91	3.14 1.89	0.66 1.32	1.15 0.71	2.60 1.98	1.00 0.31	2.63 3.54	17
18	3.49 3.40	4.17 4.03	4.08 3.21	2.94 2.87	4.51 3.51	2.57	2.97 1.77	0.60	0.99 0.77	2.42 2.10	0.51 0.69	2.63 3.82	18
19	3.21 3.21	3.96 3.81	3.79 3.09	2.80	3.01 2.27	4.37 3.19	1.11 0.51	2.79 1.80	1.02 0.77	2.33 2.11	0.74 1.02	2.72 4.01	19
20	3.16 3.21	4.02 3.79	2.85 2.74	3.90 3.05	2.71 2.01	4.20 3.05	0.97 0.53	2.65 1.80	0.87 0.63	2.05 2.18	0.76 1.22	2.66 4.02	20
21	3.23 3.10	4.07 3.60	2.81 2.50	3.85 3.22	2.35 1.56	3.77 2.83	0.91 0.57	2.45 1.95	0.83 0.63	1.92 2.32	1.21 1.74	2.67 4.04	21
22	3.07 2.87	4.08 3.84	2.77 2.17	4.23 2.94	2.07 1.47	3.56 2.76	0.99 0.55	2.36 2.00	0.83 0.72	1.83 2.43	1.23 1.99	2.67	22
23	3.15 2.81	4.57 3.57	2.41 1.76	4.14 2.82	1.87 1.22	3.18 2.47	0.86 0.40	2.01	0.79 0.86	1.76	3.44 2.92	1.12 2.06	23
24	2.87 2.30	4.14 3.28	2.13 1.42	3.92 2.21	1.53 1.00	2.72	1.96 1.69	0.67 0.28	2.59 1.78	0.78 1.21	3.90 2.92	1.12 2.05	24
25	2.56 1.97	3.91 3.06	1.57 1.02	3.16	2.48 2.34	1.38 0.76	1.96 1.42	0.48 0.39	2.90 2.19	1.02 1.67	3.80 3.06	1.30 2.12	25
26	2.45 1.77	3.78	2.20 2.82	1.50 0.88	2.35 1.92	1.06 0.68	2.17 1.57	0.56 0.96	3.15 2.26	1.09 1.65	3.72 2.86	1.12 1.72	26
27	2.78 3.32	2.21 1.50	2.30 2.87	1.56 1.09	2.32 1.64	0.85 0.59	2.69 1.70	0.75 1.11	3.06 2.55	1.02 1.82	3.27 3.24	1.13	27
28	2.67 3.36	2.21 1.89	2.96 2.77	1.67 1.12	2.30 1.52	0.64 0.75	2.71 1.84	0.59 1.21	3.17 2.53	0.97 1.66	1.62 1.20	3.20 3.38	28
29	2.83 3.15	2.42 1.96	2.89 2.50	1.58 1.44	2.46 1.58	0.54 1.01	2.78 1.76	0.58 1.29	3.01 2.55	0.94	1.54 1.16	3.37 3.21	29
30	3.02 3.20	2.37 2.02	3.18 2.85	1.88 2.08	2.84 2.02	0.86 1.43	2.72 1.79	0.47 1.28	1.60 1.03	2.96 2.61	1.17 1.10	3.08 2.82	30
31			3.66 3.20	2.38 2.72			2.72 1.63	0.42 1.10	1.53 1.02	2.83 2.51			31
MAXIMUM	6.15		4.37		4.51		3.14		3.24		4.04		MAXIMUM
MINIMUM	1.50		0.88		0.54		0.28		0.36		0.31		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 7.1 - 1/18/73

ZERO OF GAGE: 1972 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

B95740 SAN JOAQUIN RIVER AT BRANOT BRIDGE  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	3.37 4.29	5.72 6.59	3.73 5.03	6.17 6.25	4.50 5.31	6.98 6.10	5.05 5.60	7.60 5.80	6.72 8.01	6.23 5.74	6.23 7.53	5.06 4.40	01
02	3.23 4.28	5.50 6.28	3.56 4.76	5.91 6.00	3.65 4.50	6.33 5.34	4.79 4.95	7.08	6.58 7.86	6.12 5.45	6.11 7.49	5.09 4.29	02
03	2.95 4.38	5.36 6.13	3.49 4.28	5.86 5.50	3.42 4.21	6.29	5.69 7.50	4.99 4.98	6.66 7.90	6.11	6.33 7.74	5.48 4.83	03
04	2.92 4.46	5.43 6.03	3.18 3.84	5.73	5.27 6.59	3.69 4.10	6.01 8.12	5.52 5.39	5.31 5.91	6.71 8.10	6.44 7.44	5.45 4.69	04
05	3.09 4.68	5.81	5.24 5.82	3.11 3.79	5.36 6.79	4.01 3.91	6.89 8.70	6.28	5.37 5.84	6.86 8.15	6.58 7.50	5.34	05
06	6.44 6.36	3.89 4.71	5.53 6.12	3.51 3.62	5.46 6.92	4.18	5.71 6.34	7.08 8.82	5.22 5.46	6.62 7.74	4.69 5.22	6.79 7.78	06
07	6.50 6.23	3.81 4.23	5.48 6.51	3.58 3.61	3.74 4.34	5.60 7.22	5.91 6.52	7.30 8.84	5.06 5.35	6.85 7.57	4.91 5.44	7.28 8.15	07
08	6.27 6.26	3.76 4.16	5.64 6.53	3.63	3.84 4.54	5.81 7.37	5.97 6.55	7.64 8.88	4.93 5.05	6.88 7.09	5.38 5.71	7.51 7.64	08
09	6.29 6.41	3.95 4.04	3.45 3.93	5.67 6.80	3.82 4.61	5.92 7.31	5.95 6.51	7.61 8.68	4.62 4.81	6.92 6.78	5.17 4.98	7.19 6.98	09
10	6.16 6.41	3.84	3.53 4.09	5.77 6.96	3.63 4.52	5.85 7.37	6.01 6.34	7.59 8.23	4.60 4.73	7.08 6.42	5.07 5.09	7.32 6.91	10
11	3.84 3.99	6.18 6.69	3.52 4.50	5.98 7.36	3.70 5.34	6.28 8.07	5.80 6.09	7.47 7.82	4.57 4.66	7.15 6.08	5.18 5.09	7.55 6.78	11
12	3.92 4.15	6.19 6.83	3.84 5.04	6.51 7.64	4.21 4.97	6.48 7.49	5.77 6.27	7.81 7.59	4.47 4.47	7.07 5.94	5.28 5.04	7.68 6.52	12
13	3.80 4.06	5.98 6.78	3.95 4.83	6.22 7.67	4.09 5.12	6.79 7.38	5.79 6.01	7.78 6.90	4.71 4.25	7.02	5.17 4.65	7.32 6.11	13
14	3.63 4.13	5.89 6.91	4.14 4.77	6.28 7.20	4.10 4.89	6.72 6.78	5.34 5.55	7.56 6.40	5.48 6.82	4.80 4.12	5.15 4.44	7.11	14
15	3.60 4.44	5.98 7.12	3.77 4.79	6.29 6.96	3.79 4.31	6.50 5.91	5.27 5.40	7.71	5.47 6.70	4.89 4.04	5.98 6.94	5.28 4.25	15
16	3.69 4.44	5.84 6.94	3.70 4.75	6.54 6.62	3.54 4.23	6.55 5.66	6.51 8.23	5.71 5.78	5.68 7.07	5.18 4.25	5.91 6.62	5.10 4.03	16
17	3.52 4.44	5.80 6.91	3.72 4.83	6.53	3.77 4.31	6.99	6.58 7.93	5.90 5.34	5.97 6.90	5.00	6.03 6.47	4.97 3.93	17
18	3.68 4.59	6.01 6.70	7.13 7.43	4.51 4.87	5.60 7.02	4.11 4.05	6.58 8.31	5.98	3.91 4.57	5.78 6.61	6.17 6.70	5.02 3.97	18
19	3.66 4.56	6.12	6.24 6.75	3.84 3.96	5.48 6.86	4.29 3.80	5.84 6.57	7.15 8.54	3.66 4.92	6.03 7.03	6.34 6.76	4.85 4.00	19
20	6.71 6.25	3.74 4.39	5.67 6.88	3.79 4.19	5.53 7.10	4.54	6.30 7.00	7.59 8.78	3.84 4.12	5.82 6.42	6.62 7.06	4.99	20
21	6.42 6.48	3.78 4.22	6.10 7.36	4.42	3.91 5.23	5.99 7.56	6.49 7.10	7.62 8.66	3.46 3.98	5.73 6.66	4.43 4.70	6.83 6.86	21
22	6.35 6.71	3.92 4.44	4.20 4.72	6.27 7.53	4.33 5.30	6.41 7.51	6.32 6.63	7.39 8.04	3.73 4.01	5.95 6.21	4.13 4.29	6.60 6.68	22
23	6.94 6.81	4.41	4.29 4.94	6.39 7.44	4.22 5.13	6.18 7.33	6.03 6.61	7.31 8.25	3.50 3.71	5.81 5.94	4.26 4.34	6.79 6.59	23
24	NR	NR	3.96 5.01	6.32 7.30	4.06 5.02	6.09 7.16	6.26 6.72	7.56 8.11	3.47 3.60	5.93 5.78	4.38 4.14	6.85 6.38	24
25	NR	NR	3.78 4.83	6.05 7.12	3.89 5.02	6.04 7.11	6.22 6.83	7.72 8.09	3.59 3.86	6.23 5.72	4.38 4.19	6.97 6.39	25
26	NR	NR	3.93 5.11	6.33 7.17	3.91 5.10	6.23 6.97	6.33 6.88	7.81 7.79	3.75 3.99	6.50 5.71	4.57 4.17	7.18 6.51	26
27	NR	NR	3.72 4.84	6.04 6.67	3.97 5.37	6.44 7.15	6.18 6.50	7.62 7.31	3.93 3.84	6.66 5.40	5.10 4.66	7.67 6.54	27
28	NR	NR	3.35 4.63	5.70 6.52	4.40 5.59	6.65 6.99	6.03 6.31	7.62 6.97	4.33 4.22	7.10	5.41 4.55	7.57 6.31	28
29	NR	NR	3.42 5.07	6.02 6.54	4.87 6.11	7.03 7.18	5.87 6.07	7.60 6.60			5.44 4.86	7.53	29
30	NR	NR	3.57 5.37	6.29 7.32	5.40 5.82	7.14 6.48	5.83 6.11	7.77 6.62			6.61 8.21	6.12 5.26	30
31	NR	NR			4.87 5.51	7.02 6.21	6.10 6.04	7.95			6.85 7.33	5.94 4.90	31
MAXIMUM	NR		7.67		8.07		8.88		8.15		8.21		MAXIMUM
MINIMUM	NR		3.11		3.42		4.79		3.46		3.93		MINIMUM

NR = NO RECORD

LOCATION: LAT. 37 51 53, LONG. 121 19 18, NW SEC. 9, T1S, R6E,  
ON BOWMAN ROAD BETWEEN ROBERTS ISLAND AND R.D. 17.PERIOD OF RECORD: JULY 1940 TO SEPT 1966  
JAN 1968 TO DATE



TABLE R-12 (CONTINUED)

## DAILY TIDES

R95740 SAN JOAQUIN RIVER AT BRANDT BRIDGE  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	6.73 7.51	5.71 5.51	6.55 6.30	4.37 3.97	7.59 6.45	4.40 4.88	7.16 5.91	3.30 4.53	6.77 5.74	3.07 4.15	4.18 3.66	6.69 6.34	01
02	7.69 7.96	6.44 6.11	6.71 6.14	4.10 4.14	7.71 6.57	4.41 5.03	7.16 5.93	3.24 4.61	6.84 6.05	3.23	4.06 3.84	6.65 6.62	02
03	8.08 8.10	6.66 6.51	6.93 6.27	4.11 4.36	7.70 6.68	4.42 5.43	7.14 6.02	3.27 4.61	4.40 3.61	6.99 6.15	4.21 4.02	6.59 6.70	03
04	8.24 8.08	6.77	7.24 6.51	4.24 4.58	7.79 6.63	4.44	7.06 5.83	3.15	4.30 3.54	6.84 6.20	4.07 4.04	6.44 6.68	04
05	6.52 6.78	8.45 8.41	7.47 6.55	4.26	5.35 4.26	7.47 6.58	4.32 3.17	6.87 5.99	4.13 3.55	6.66 6.19	3.97 3.92	6.19 6.73	05
06	6.87 6.74	8.78 8.02	4.86 4.27	7.58 6.45	5.41 4.23	7.53 6.57	4.46 3.23	6.84 6.00	4.00 3.24	6.16 6.09	3.90 4.02	6.02 6.70	06
07	6.63 6.36	8.43 7.76	4.84 4.02	7.45 6.41	5.40 4.36	7.47 6.70	4.31 3.15	6.57 5.98	3.81 3.38	5.95 6.23	3.72 4.60	5.99 7.09	07
08	6.55 6.33	8.46 8.18	4.90 3.93	7.38 6.45	5.50 3.98	7.19 6.70	4.11 2.97	6.14 6.01	3.77 3.29	5.70 6.33	3.87 4.90	5.96 7.30	08
09	6.81 6.25	8.55 7.55	5.18 4.02	7.41 6.46	5.34 4.19	7.11 6.71	4.07 2.97	6.05 6.12	3.79 3.85	5.75 6.86	3.81 4.90	5.97 7.25	09
10	6.41 5.63	7.92 6.89	5.26 3.88	7.17 6.29	5.36 4.36	6.80 6.92	3.99 3.21	5.84 6.26	3.89 4.18	5.61 6.99	3.66 4.89	6.02	10
11	6.09 5.31	7.57 6.71	5.28 3.88	6.77 6.34	5.50 4.57	6.65	3.78 3.09	5.29 6.30	3.70 4.54	5.60	7.25 6.11	3.67 4.53	11
12	6.00 5.19	7.38	5.35 4.09	6.61	7.08 6.22	5.30 4.29	3.47 3.26	5.01	7.25 5.92	3.69 4.87	7.21 6.71	3.87 5.07	12
13	6.60 7.03	5.96 4.88	6.39 5.95	5.10 3.81	7.05 5.85	4.83 4.26	6.40 4.99	3.23 3.67	7.42 5.95	3.55 4.65	7.68 6.83	4.27 4.94	13
14	6.55 6.69	5.86 4.85	6.31 5.68	4.76 3.89	7.02 5.60	4.31 4.28	6.68 5.21	3.21 4.11	7.20 5.74	3.19 4.39	7.49 6.88	4.16	14
15	6.70 6.63	5.79 4.83	6.58 5.72	4.74 4.13	7.00 5.68	3.91 4.35	7.00 5.58	3.24 4.40	7.15 5.97	3.25 4.29	4.61 4.26	7.24 6.95	15
16	6.69 6.39	5.46 4.66	6.71 5.56	4.64 4.39	7.12 5.88	3.78 4.59	7.14 5.68	3.14 4.42	7.11 6.05	3.29 3.99	4.44 4.32	7.08 7.03	16
17	6.74 6.91	5.38 5.12	7.00 5.84	4.50 4.50	7.53 6.29	4.02 5.11	7.30 5.85	3.17 4.34	6.92 6.06	3.22	4.16 4.34	6.78 7.13	17
18	7.11 6.51	5.07 4.72	6.92 5.83	4.23 4.46	7.93 6.61	4.21 5.30	7.28 5.83	3.13 4.14	3.71 3.24	6.70 6.20	4.41 4.55	6.84 7.37	18
19	6.88 6.37	4.75 4.76	7.03 5.89	4.08 4.47	7.92 6.47	3.97 5.05	7.17 5.89	3.12	3.66 3.18	6.56 6.19	4.61 4.84	6.81 7.56	19
20	7.06 6.48	4.72	7.11 5.91	3.97 4.54	7.78 6.32	3.84	3.95 3.21	7.05 6.05	3.42 3.10	6.12 6.31	4.64 5.03	6.62 7.54	20
21	4.81 4.52	7.13 6.45	7.21 6.05	3.83	4.81 3.62	7.60 6.37	3.87 3.18	6.84 6.15	3.41 3.19	5.95 6.50	4.63 4.99	6.44 7.38	21
22	4.86 4.48	7.37 6.71	4.78 3.85	7.44 6.10	4.69 3.68	7.44 6.43	3.82 3.16	6.62 6.31	3.43 3.39	5.81 6.58	4.50 5.18	6.53 7.28	22
23	5.20 4.50	7.69 6.65	4.78 3.73	7.47 6.11	4.48 3.48	7.05 6.30	3.74 3.11	6.29 6.38	3.37 3.61	5.59 6.71	4.39 5.33	6.44	23
24	5.06 4.14	7.54 6.42	4.72 3.43	7.32 5.88	4.11 3.23	6.54 6.29	3.56 3.09	5.94 6.46	3.39 4.15	5.68 7.00	7.20 6.58	4.40 5.30	24
25	4.97 3.86	7.34 6.24	4.25 3.07	6.86 5.86	3.92 3.03	6.08 6.23	3.33 3.29	5.58	3.63 4.65	5.97	7.09 6.78	4.47 5.31	25
26	4.94 3.69	7.21 5.95	4.17 3.01	6.59 6.06	3.60 2.98	5.56	6.62 5.64	3.42 4.05	7.08 5.92	3.60 4.56	7.04 6.60	4.35 4.92	26
27	4.78 3.43	6.77	4.27 3.35	6.55	6.32 5.27	3.31 3.11	6.98 5.68	3.60 4.17	6.92 6.12	3.48 4.71	7.03 6.61	4.38 4.86	27
28	5.92 6.66	4.70 3.59	6.49 6.32	4.34 3.52	6.41 5.20	3.09 3.49	6.98 5.64	3.36 4.39	6.95 6.03	3.38 4.50	6.89 6.80	4.45 4.76	28
29	6.12 6.35	4.63 3.53	6.68 5.87	4.01 3.48	6.62 5.44	3.05 4.03	6.97 5.73	3.33 4.39	6.82 6.06	3.32 4.36	6.79 6.65	4.43	29
30	6.25 6.27	4.48 3.73	6.74 6.01	3.92 4.05	7.04 5.90	3.42 4.45	6.90 5.75	3.14 4.38	6.77 6.07	3.40 4.23	4.40 4.31	6.48 6.60	30
31			7.15 6.29	4.13 4.64			6.90 5.69	3.09 4.20	6.67 6.18	3.43			31
MAXIMUM	8.78		7.58		7.93		7.30		7.42		7.68		MAXIMUM
MINIMUM	3.43		3.01		2.98		2.97		3.07		3.66		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 19.5 - 12/10/50  
MAXIMUM OF RECORD IS MAXIMUM RECORDED STAGE --ZERO OF GAGE: 1940 TO 1952 -3.61 USCGS  
1952 -3.79 USCGS  
1964 -3.34 USCGS  
1964 TO DATE -3.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895660 STOCKTON SHIP CHANNEL AT BURNS CUTOFF  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	NR	NR	2.42 4.30	5.77 5.88	3.60 4.66	6.75 5.69	3.41 4.11	7.09 4.72	5.25 7.17	4.21 3.14	4.47 3.37	7.29	01
02	NR	NR	2.17 3.97	5.48 5.60	2.68 3.77	6.03 4.93	3.21 3.27	6.53	5.21 7.06	4.23 2.68	5.82 7.33	4.56 3.04	02
03	2.66 3.82	5.03 5.82	2.13 3.42	5.52 5.09	2.53 3.40	6.06 4.86	4.87 7.11	3.68 3.31	5.47 7.19	4.30 2.67	5.97 7.40	4.69 2.88	03
04	2.29 3.84	5.00 5.60	1.87 3.03	5.37	2.86 3.19	6.40	5.24 7.67	4.29 3.46	5.74 7.50	4.19 3.00	5.86 7.03	4.12 2.60	04
05	1.96 3.70	5.25	4.84 5.58	1.88 2.90	5.00 6.61	3.23 2.88	6.16 8.22	5.02 3.61	6.04 7.54	4.16	6.04 7.11	3.87 2.80	05
06	5.78 5.62	2.25 3.48	5.18 5.87	2.48 2.52	5.11 6.77	3.43 2.60	6.32 8.29	4.96	2.87 3.64	5.79 7.16	6.35 7.40	3.88 3.28	06
07	5.75 5.42	2.22 2.79	5.11 6.26	2.60 2.44	5.23 7.07	3.65 2.64	3.66 4.94	6.50 8.28	2.75 3.51	6.15 7.02	6.84 7.71	4.04	07
08	5.40 5.33	2.01 2.48	5.27 6.34	2.74 2.43	5.44 7.26	3.86	3.64 5.00	6.91 8.35	2.79 3.26	6.28 6.56	3.57 3.98	7.00 7.14	08
09	5.35 5.24	2.07 2.07	5.35 6.66	3.13	2.58 3.90	5.56 7.16	3.63 4.71	6.85 8.04	2.64 3.12	6.38 6.24	3.25 3.08	6.67 6.39	09
10	4.99 5.29	1.87 1.84	2.38 3.36	5.47 6.84	2.36 3.85	5.49 7.23	3.46 4.27	6.70 7.49	2.76 3.08	6.60 5.90	3.14 3.12	6.80 6.30	10
11	5.00 5.55	2.14	2.31 3.83	5.73 7.26	2.40 4.74	5.98 7.97	3.17 3.89	6.56 7.01	2.98 3.15	6.74 5.58	3.42 3.30	7.05 6.24	11
12	1.81 2.28	4.97 5.72	2.67 4.39	6.29 7.53	2.96 4.24	6.17 7.31	3.17 4.12	6.98 6.66	3.12 3.11	6.71 5.47	3.82 3.34	7.21 5.97	12
13	1.60 2.20	4.72 5.66	2.72 4.18	5.93 7.56	2.83 4.33	6.53 7.11	3.24 3.78	6.97 5.82	3.57 2.66	6.62	3.85 2.95	6.85 5.55	13
14	1.42 2.41	4.66 5.84	2.98 4.07	6.00 7.02	2.85 4.10	6.49 6.46	2.98 3.55	6.86 5.42	4.88 6.39	3.74 2.40	4.04 2.83	6.66	14
15	1.43 2.85	4.76 6.06	2.76 4.12	6.04 6.73	2.57 3.46	6.26 5.57	3.42 3.60	7.17	4.85 6.27	3.87 2.31	5.44 6.50	4.34 2.76	15
16	1.56 2.92	4.67 5.89	2.44 4.11	6.37 6.40	2.44 3.27	6.31 5.29	5.75 7.74	4.31 3.96	5.11 6.65	4.21 2.60	5.47 6.23	4.36 2.71	16
17	1.41 2.93	4.58 5.82	2.72 4.25	6.42 7.01	2.75 3.21	6.78	5.70 7.38	4.47 3.31	5.44 6.48	4.01 2.27	5.61 6.13	4.22 2.62	17
18	1.59 2.94	4.78 5.50	3.68 4.00	7.30	5.19 6.72	3.12 2.82	5.76 7.78	4.63 3.96	5.31 6.24	3.64 2.14	5.75 6.27	4.23 2.69	18
19	1.43 2.84	4.84 5.50	5.95 6.58	2.91 3.03	5.08 6.56	3.44 2.48	6.37 7.93	5.22 4.28	5.62 6.70	4.19	5.96 6.38	4.01 2.81	19
20	1.47 2.38	4.88	5.38 6.77	2.94 3.33	5.10 6.78	3.76 2.59	6.71 8.11	5.55	2.45 3.15	5.42 6.08	6.30 6.70	4.12 3.29	20
21	5.06 5.08	1.43 2.08	5.83 7.31	3.70 3.24	5.59 7.36	4.57 3.05	4.40 5.61	6.65 7.88	2.08 3.05	5.35 6.44	6.49 6.49	3.68 2.94	21
22	4.92 5.37	1.70 2.43	6.01 7.43	4.04	5.99 7.19	4.52	4.28 5.05	6.44 7.30	2.39 2.94	5.56 5.80	6.31 6.35	3.28 3.14	22
23	5.62 5.47	2.37 1.77	3.27 4.23	6.09 7.26	2.72 4.28	5.74 7.01	3.85 4.87	6.32 7.43	2.11 2.57	5.40 5.56	6.48 6.24	3.21	23
24	4.60 5.12	1.70	2.84 4.32	6.06 7.09	2.56 4.19	5.65 6.84	3.85 4.81	6.49 7.21	2.15 2.40	5.57 5.37	3.27 3.00	6.60 6.02	24
25	1.37 1.85	4.43 5.16	2.67 4.26	5.77 7.04	2.37 4.24	5.60 6.76	3.75 4.85	6.68 7.09	2.36 2.65	5.91 5.36	3.36 2.96	6.72 6.05	25
26	1.16 1.96	4.28 5.18	2.96 4.55	6.07 7.01	2.45 4.32	5.79 6.68	3.72 4.70	6.71 6.53	2.67 2.80	6.21 5.36	3.54 2.91	6.89 6.13	26
27	0.96 1.90	4.07 4.97	2.63 4.28	5.76 6.43	2.55 4.46	6.05 6.75	3.35 4.04	6.37 5.87	2.99 2.58	6.39 5.03	4.21 3.18	7.37 6.06	27
28	0.77 2.14	4.01 5.14	2.22 4.06	5.38 6.24	2.79 4.44	6.20 6.48	3.19 3.88	6.47 5.51	3.60 3.11	6.87 5.94	4.39 2.74	7.21 5.70	28
29	0.84 2.07	3.87 4.71	2.28 4.48	5.71 6.25	2.86 4.66	6.43 6.41	3.30 3.75	6.60 5.12			4.27 3.02	7.08 6.02	29
30	0.43 2.07	3.58 4.53	2.51 4.93	6.06 7.15	3.18 4.15	6.39 5.58	3.42 3.55	6.79 4.92			5.11 3.48	7.80	30
31	0.44 3.91	5.25 6.08			2.93 4.04	6.46 5.40	3.71 3.44	6.94			6.22 6.77	4.67 2.82	31
MAXIMUM	NR		7.56		7.97		8.35		7.54		7.80		MAXIMUM
MINIMUM	NR		1.87		2.36		2.98		2.08		2.60		MINIMUM

NR - NO RECORD

LOCATION: LAT. 37 57 46, LONG. 121 21 54, SW SEC. 6, T1N, R6E,  
ON NORTH END OF ROUGH AND READY ISLAND, APPROXIMATELY  
0.4 MILE ABOVE BURNS CUTOFF.

PERIOD OF RECORD: MAY 1940 TO DATE

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895660 STOCKTON SHIP CHANNEL AT BURNS CUTOFF  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	6.10 6.98	4.38 3.56	6.20 5.92	3.25 2.70	7.31 6.01	3.29 3.83	7.29 5.88	2.53 4.14	6.91 5.75	2.43 3.79	6.65 6.26	2.90 3.42	01
02	7.09 7.31	4.86 4.10	6.38 5.73	2.81 2.83	7.41 6.11	3.28 3.94	7.29 5.90	2.48 4.22	7.01 6.11	2.60 4.04	6.57 6.51	3.08 3.08	02
03	7.42 7.29	4.84 4.25	6.58 5.85	2.74 3.18	7.35 6.17	3.22 4.30	7.31 6.03	2.56 4.21	7.15 6.21	3.01 3.89	3.48 3.26	6.44 6.56	03
04	7.41 7.18	4.60 4.29	6.97 6.11	2.86 3.53	7.42 6.12	3.29 4.29	7.22 5.84	2.41 3.94	6.95 6.25	2.95	3.32 3.28	6.27 6.55	04
05	7.75 7.65	4.75 4.95	7.18 6.14	2.80 3.85	7.09 6.10	3.21	7.02 6.01	2.47	3.69 2.96	6.76 6.21	3.15 3.20	5.99 6.61	05
06	8.16 7.14	4.71	7.26 6.08	2.75 3.93	4.44 3.28	7.17 6.12	4.05 2.51	6.97 6.00	3.51 2.66	6.19 6.15	3.06 3.37	5.81 6.67	06
07	4.58 4.08	7.68 6.81	7.20 6.02	2.58	4.47 3.34	7.10 6.21	3.89 2.50	6.66 6.00	3.32 2.91	5.98 6.31	2.96 4.05	5.78 7.00	07
08	4.53 4.04	7.75 7.38	4.07 2.69	7.21 6.12	4.51 3.11	6.83 6.28	3.65 2.30	6.18 6.04	3.27 2.80	5.67 6.44	3.04 4.39	5.68 7.12	08
09	4.99 4.11	7.87 6.69	4.41 2.72	7.14 6.10	4.44 3.15	6.73 6.30	3.58 2.27	6.02 6.22	3.32 3.44	5.72 6.99	2.89 4.37	5.68 7.09	09
10	4.70 3.39	7.21 6.01	4.44 2.35	6.82 5.85	4.40 3.12	6.37 6.46	3.46 2.53	5.72 6.28	3.38 3.80	5.56 7.13	2.78 4.39	5.78 7.12	10
11	4.58 3.21	6.90 5.90	4.43 2.26	6.39 5.88	4.36 3.36	6.12 6.61	3.17 2.40	5.09 6.33	3.13 4.23	5.56 7.39	2.76 4.03	5.96	11
12	4.65 3.18	6.67 5.82	4.45 2.50	6.18 5.94	4.19 3.32	5.68	2.83 2.78	4.80 6.43	3.08 4.54	5.87	7.18 6.50	3.00 4.45	12
13	4.71 2.87	6.31	4.12 2.28	5.52	6.68 5.43	3.82 3.50	2.54 3.25	4.80	7.51 5.93	2.91 4.28	7.60 6.59	3.35 4.22	13
14	5.78 5.91	4.57 2.80	5.86 5.13	3.74 2.57	6.77 5.19	3.49 3.57	6.75 5.03	2.47 3.72	7.34 5.78	2.51 4.00	7.35 6.60	3.15 3.63	14
15	5.99 5.87	4.47 2.93	6.21 5.15	3.64 2.77	6.75 5.46	3.29 3.69	7.09 5.47	2.47 4.05	7.34 5.96	2.57 3.86	7.00 6.67	3.15 3.40	15
16	6.04 5.69	4.12 2.91	6.27 4.90	3.26 3.08	7.00 5.56	2.83 3.86	7.25 5.61	2.38 4.03	7.26 6.02	2.58 3.47	6.82 6.80	3.27	16
17	6.18 6.33	4.12 3.63	6.54 5.23	2.95 3.15	7.33 5.86	2.82 4.28	7.45 5.82	2.38 3.95	7.05 6.07	2.49 3.16	3.13 3.16	6.54 6.84	17
18	6.62 5.99	3.67 3.14	6.45 5.22	2.55 3.23	7.70 6.20	3.09 4.44	7.46 5.82	2.36 3.74	6.76 6.22	2.56	3.15 3.41	6.47 7.06	18
19	6.37 5.82	3.19 3.28	6.62 5.36	2.44 3.34	7.77 6.08	2.78 4.24	7.43 5.90	2.40 3.51	3.08 2.46	6.61 6.19	3.27 3.68	6.37 7.17	19
20	6.60 5.94	3.10 3.37	6.69 5.40	2.25 3.45	7.63 6.03	2.71 4.04	7.27 6.13	2.51	2.80 2.43	6.11 6.36	3.14 3.84	6.12 7.11	20
21	6.68 5.94	2.79 3.61	6.85 5.57	2.24 3.71	7.59 6.18	2.97	3.40 2.48	7.04 6.23	2.77 2.59	5.93 6.57	2.99 4.01	5.96 6.99	21
22	6.99 6.27	2.94	7.11 5.71	2.48	4.04 2.98	7.46 6.32	3.31 2.48	6.76 6.42	2.77 2.84	5.75 6.63	3.06 4.31	5.99 6.89	22
23	4.11 2.90	7.30 6.23	3.98 2.62	7.26 5.84	3.84 2.62	7.06 6.23	3.21 2.52	6.39 6.55	2.70 3.13	5.49 6.75	2.98 4.47	5.98 6.80	23
24	4.09 2.69	7.26 6.05	4.04 2.45	7.20 5.71	3.45 2.39	6.50 6.24	3.04 2.57	6.02 6.66	2.75 3.75	5.58 7.06	2.98 4.46	6.15	24
25	4.14 2.47	7.12 5.89	3.71 2.22	6.83 5.70	3.20 2.15	5.99 6.21	2.80 2.84	5.61 6.84	2.98 4.25	5.86 7.08	6.68 6.34	3.13 4.41	25
26	4.20 2.34	6.99 5.61	3.62 2.25	6.57 5.98	2.92 2.22	5.48 6.39	2.92 3.70	5.67 7.17	2.89 4.10	5.78	6.63 6.13	2.90 3.84	26
27	4.09 2.15	6.54 5.60	3.71 2.65	6.48 6.41	2.59 2.48	5.09	3.04 3.83	5.66	6.90 6.00	2.77 4.25	6.60 6.17	2.91 3.72	27
28	4.02 2.17	6.37	3.69 3.00	6.16	6.50 5.04	2.34 2.97	7.14 5.63	2.75 4.07	6.89 5.91	2.60 3.97	6.46 6.34	3.04 3.51	28
29	5.73 5.96	3.79 2.03	6.70 5.61	3.42 2.81	6.74 5.43	2.30 3.64	7.10 5.71	2.70 4.04	6.78 5.97	2.57 3.82	6.35 6.19	2.97 2.97	29
30	5.83 5.88	3.51 2.42	6.59 5.64	3.18 3.27	7.21 5.87	2.70 4.05	7.03 5.74	2.49 4.04	6.72 5.95	2.62 3.62	6.01 6.13	2.83	30
31			6.95 5.86	3.17 3.62			7.04 5.69	2.44 3.87	6.64 6.08	2.69 3.56			31
MAXIMUM	8.16		7.26		7.77		7.46		7.51		7.60		MAXIMUM
MINIMUM	2.03		2.22		2.15		2.27		2.43		2.76		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 10.3 - 12/26/55

ZERO OF GAGE: 1940 TO 1943 -4.22 USCGS  
1943 TO 1945 -4.39 USCGS  
1945 TO 1946 -4.70 USCGS  
1946 TO 1951 -3.00 USCGS  
1951 -3.02 USCGS  
1964 -3.53 USCGS  
1964 TO DATE -3.00 USCGS

TABLE B-12 (CONTINUED)

## DAILY TIDES

895620 SAN JOAQUIN RIVER AT RINDGE PUMP  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	-0.50 0.71	2.35 3.33	-0.69 1.19	2.57 2.71	0.53 1.59	3.56 2.51	0.31 0.99	3.84 1.53	2.18 3.97	1.11 0.05	1.42 0.32	4.13	01
02	-0.65 0.69	2.13 2.96	-0.98 0.89	2.30 2.44	-0.42 0.68	2.84 1.76	0.09 0.19	3.34 1.86	2.04 3.86	1.12 -0.39	2.69 4.17	1.47 0.00	02
03	-0.93 0.85	1.98 2.76	-0.93 0.34	2.26 1.93	-0.55 0.32	2.86 1.68	1.72 3.93	0.60 0.24	2.29 3.99	1.18 -0.39	2.79 4.19	1.57 -0.19	03
04	-1.04 0.90	2.01 2.61	-1.19 -0.17	2.15 2.15	-0.21 0.12	3.22 3.42	2.11 4.46	1.18 0.38	2.54 4.32	1.11 -0.07	2.64 3.82	1.04 -0.46	04
05	-0.95 0.82	2.26 3.06	1.68 2.36	-1.16 -0.15	1.83 3.42	0.16 -0.18	2.98 5.03	1.56 0.54	2.81 4.30	1.04 0.00	2.83 3.90	0.80 -0.24	05
06	2.88 2.78	-0.54 0.80	2.01 2.71	-0.56 -0.54	1.94 3.59	0.36 -0.45	3.14 5.06	1.86 0.00	-0.18 0.56	2.60 3.94	3.14 4.20	0.61 0.23	06
07	2.98 2.73	-0.42 0.23	1.94 3.06	-0.44 -0.61	2.06 3.86	0.57 -0.41	0.57 1.83	3.30 5.05	-0.30 0.47	2.95 3.81	3.65 4.48	1.01	07
08	2.73 2.68	-0.54 -0.17	2.08 3.15	-0.32 -0.75	2.26 4.06	0.78	0.57 1.90	3.69 5.14	-0.24 0.21	3.08 3.36	0.50 0.88	3.79 3.94	08
09	2.69 2.76	-0.44 -0.24	2.18 3.48	0.08	-0.46 0.82	2.37 3.97	0.57 1.64	3.64 4.82	-0.41 0.06	3.17 3.05	0.20 0.00	3.48 3.19	09
10	2.56 2.83	-0.43 -0.46	-0.64 0.28	2.29 3.66	-0.69 0.76	2.30 4.02	0.42 1.21	3.49 4.27	-0.29 0.04	3.39 2.72	0.09 0.07	3.60 3.11	10
11	2.58 3.15	-0.17	-0.73 0.77	2.50 4.05	-0.65 1.69	2.79 4.77	0.12 0.86	3.36 3.80	-0.07 0.09	3.54 2.41	0.35 0.23	3.86 3.06	11
12	-0.42 0.03	2.61 3.33	-0.36 1.34	3.13 4.32	-0.08 1.18	2.98 4.12	0.13 1.05	3.78 3.49	0.06 0.04	3.52 2.31	0.76 0.27	4.01 2.83	12
13	-0.60 0.01	2.36 3.30	-0.33 1.10	2.76 4.41	-0.19 1.28	3.36 3.91	0.19 0.71	3.77 2.67	0.51 -0.40	3.43 -0.40	0.80 -0.13	3.66 2.36	13
14	-0.79 0.15	2.28 3.46	-0.07 1.00	2.82 3.82	-0.19 1.02	3.28 3.28	-0.05 0.47	3.63 2.27	1.73 3.21	0.64 -0.66	0.95 -0.23	3.47 2.27	14
15	-0.79 0.57	2.38 3.67	-0.50 1.05	2.85 3.55	-0.48 0.39	3.06 2.42	0.38 0.52	3.97 0.00	1.69 3.09	0.78 -0.76	1.24 -0.31	3.32	15
16	-0.67 0.60	2.24 3.49	-0.55 1.06	3.23 3.23	-0.61 0.21	3.12 2.13	2.59 4.56	1.23 0.89	1.94 3.47	1.15 -0.47	2.30 3.06	1.27 -0.35	16
17	-0.85 0.68	2.24 3.47	-0.35 1.17	3.27 3.81	-0.32 0.14	3.61	2.54 4.17	1.39 0.23	2.26 3.29	0.90 -0.78	2.44 2.96	1.14 -0.44	17
18	-0.63 0.72	2.43 3.18	0.64 0.93	4.09	2.02 3.53	0.07 -0.24	2.60 4.58	1.54 0.89	2.14 3.07	0.57 -0.88	2.58 3.08	1.14 -0.38	18
19	-0.77 0.62	2.52 3.18	2.77 3.37	-0.17 -0.04	1.91 3.37	0.36 -0.57	3.21 4.71	2.10 1.20	2.45 3.50	1.06 -0.64	2.78 3.19	0.95 -0.23	19
20	-0.69 0.30	2.64 3.60	2.18 3.60	-0.10 0.26	1.94 3.59	0.68 -0.47	3.54 4.91	2.43 0.00	2.21 2.89	0.10 0.00	3.11 3.51	1.05 0.19	20
21	2.87 2.90	-0.63 0.05	2.67 4.09	0.65 0.19	2.45 4.18	1.50 0.00	1.32 2.50	3.47 4.66	-0.96 -0.02	2.16 3.20	3.31 3.34	0.62 -0.11	21
22	2.78 3.27	-0.35 0.45	2.83 4.23	0.98 0.20	2.82 4.00	1.42	1.21 1.96	3.26 4.11	-0.65 -0.11	2.36 2.62	3.12 3.15	0.21 0.09	22
23	3.47 3.30	0.33 -0.26	2.91 4.06	1.09	-0.34 1.18	2.55 3.80	0.77 1.77	3.12 4.24	-0.95 -0.49	2.20 2.36	3.29 3.05	0.15	23
24	2.44 3.02	-0.29 -0.59	-0.21 1.23	2.87 3.88	-0.50 1.10	2.46 3.65	0.77 1.73	3.30 4.03	-0.90 -0.65	2.38 2.18	0.23 -0.07	3.41 2.83	24
25	2.33 3.06	-0.13	-0.39 1.18	2.60 3.86	-0.66 1.14	2.41 3.58	0.67 1.76	3.50 3.90	-0.68 -0.42	2.71 2.20	0.31 -0.08	3.52 2.87	25
26	-0.79 0.00	2.19 3.13	-0.09 1.45	2.88 3.82	-0.59 1.23	2.61 3.56	0.65 1.58	3.51 3.36	-0.37 -0.26	3.03 2.19	0.50 -0.12	3.69 2.95	26
27	-0.94 -0.02	2.02 2.95	-0.42 1.19	2.58 3.25	-0.45 1.35	2.89 3.57	0.28 0.96	3.18 2.70	-0.07 -0.47	3.19 1.87	1.15 0.11	4.19 2.89	27
28	-1.10 0.23	2.01 3.15	-0.84 0.96	2.20 3.05	-0.28 1.35	3.00 3.30	0.12 0.79	3.27 2.34	0.51 0.11	3.73 2.83	1.34 -0.30	4.04 2.51	28
29	-1.01 0.34	1.97 2.95	-0.78 1.37	2.53 3.09	-0.22 1.56	3.23 3.23	0.22 0.66	3.41 1.95			1.17 -0.04	3.90 2.88	29
30	-1.19 0.42	1.84 2.78	-0.53 1.88	2.91 3.97	0.07 1.05	3.19 2.41	0.33 0.45	3.60 1.77			2.03 0.41	4.61	30
31	-1.20 0.82	2.07 2.92			-0.15 0.93	3.27 2.19	0.63 0.35	3.76			3.03 3.60	1.59 -0.25	31
MAXIMUM	3.67		4.41		4.77		5.14		4.32		4.61		MAXIMUM
MINIMUM	-1.20		-1.19		-0.69		-0.05		-0.96		-0.46		MINIMUM

LOCATION: LAT. 37 59 51, LONG. 121 25 06, NW SEC. 27, T2N, R5E,  
ON RINDGE TRACT AT FOURTEENMILE SLOUGH NEAR JUNCTION  
WITH STOCKTON SHIP CHANNEL, 8 MILES NW OF STOCKTON.

PERIOD OF RECORD: JULY 1939 TO DATE

TABLE R-12 (CONTINUED)

## DAILY TIDES

895620 SAN JOAQUIN RIVER AT RINOGUE PUMP  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	3.02 3.62	1.35 0.52	3.01 2.73	0.16 -0.35	4.10 2.80	-0.14 0.73	4.09 2.67	-0.53 1.05	3.70 2.54	-0.64 0.70	3.43 3.04	-0.18 0.35	01
02	3.99 4.12	1.76 1.01	3.20 2.54	-0.25 -0.22	4.21 2.90	-0.27 0.63	4.08 2.68	-0.59 1.13	3.80 2.88	-0.47 0.94	3.36 3.29	0.00	02
03	4.22 4.08	1.74 1.17	3.39 2.65	-0.33 0.12	4.15 2.96	-0.40 1.19	4.10 2.82	-0.50 1.13	3.94 2.99	-0.08 0.81	0.41 0.18	3.23 3.35	03
04	4.21 3.98	1.51 1.21	3.78 2.91	-0.20 0.47	4.22 2.90	-0.37 1.17	4.02 2.64	-0.66 0.85	3.75 3.05	-0.14	0.25 0.19	3.06 3.33	04
05	4.54 4.46	1.67 1.88	3.99 2.95	-0.27 0.79	3.89 2.89	-0.57 1.32	3.82 2.83	-0.61	0.61 -0.13	3.54 3.00	0.09 0.13	2.78 3.39	05
06	4.93 3.93	1.61 1.49	4.06 2.69	-0.32 0.86	3.97 2.92	-0.55	0.97 -0.55	3.78 2.81	0.45 -0.43	2.97 2.94	-0.01 0.30	2.61 3.46	06
07	4.47 3.62	0.99	4.00 2.83	-0.48	1.34 -0.44	3.90 2.98	0.79 -0.58	3.46 2.81	0.24 -0.18	2.77 3.10	-0.12 0.93	2.57 3.00	07
08	1.45 0.97	4.54 4.14	0.98 -0.39	3.99 2.93	1.39 -0.77	3.64 3.08	0.58 -0.77	2.99 2.83	0.19 -0.29	2.47 3.24	-0.04 1.25	2.46 3.92	08
09	1.93 1.03	4.69 3.52	1.33 -0.37	3.95 2.92	1.34 -0.54	3.54 3.14	0.52 -0.78	2.82 2.94	0.23 0.35	2.51 3.79	-0.18 1.25	2.47 3.87	09
10	1.62 0.30	4.01 2.83	1.38 -0.74	3.62 2.66	1.30 -0.46	3.19 3.25	0.41 -0.58	2.54 3.08	0.30 0.68	2.33 3.92	-0.30 1.26	2.58 3.91	10
11	1.48 0.13	3.71 2.72	1.33 -0.85	3.21 2.70	1.27 -0.18	2.95 3.41	0.11 -0.67	1.90 3.13	0.04 1.10	2.31 4.18	-0.33 0.91	2.72	11
12	1.55 -0.01	3.47 2.66	1.35 -0.59	3.00 2.77	1.09 -0.16	2.49 3.48	-0.27 -0.34	1.62 3.23	-0.09 1.46	2.65	3.96 3.26	-0.10 1.34	12
13	1.59 -0.21	3.13	1.02 -0.82	2.18	0.72 0.17	2.23	-0.53 0.13	1.61	4.30 2.70	-0.16 1.20	4.37 3.38	0.27 1.13	13
14	2.62 2.74	1.47 -0.28	2.67 1.96	0.66 -0.54	3.59 2.00	0.16 0.31	3.55 1.84	-0.61 0.60	4.12 2.52	-0.55 0.89	4.14 3.36	0.08 0.57	14
15	2.81 2.69	1.37 -0.15	3.04 1.97	0.55 -0.35	3.57 2.12	-0.25 0.56	3.89 2.27	-0.59 0.98	4.13 2.71	-0.49 0.76	3.78 3.45	0.06 0.34	15
16	2.86 2.52	1.03 -0.18	3.09 1.75	0.13 -0.05	3.81 2.31	-0.48 0.75	4.05 2.40	-0.69 0.97	4.05 2.79	-0.50 0.40	3.60 3.57	0.20	16
17	2.99 3.12	1.02 0.56	3.35 2.05	-0.20 -0.03	4.13 2.66	-0.43 1.20	4.25 2.60	-0.68 0.85	3.83 2.81	-0.57 0.11	0.07 0.09	3.32 3.62	17
18	3.45 2.84	0.61 0.06	3.25 2.03	-0.63 0.07	4.50 2.98	-0.28 1.33	4.26 2.62	-0.69 0.65	3.54 3.01	-0.53	0.08 0.34	3.25 3.83	18
19	3.18 2.62	0.12 0.20	3.43 2.17	-0.86 0.18	4.57 2.86	-0.56 1.15	4.14 2.70	-0.66 0.44	0.02 -0.60	3.37 2.97	0.19 0.59	3.17 3.96	19
20	3.41 2.75	0.00 0.30	3.50 2.19	-0.98 0.29	4.42 2.83	-0.65 0.95	4.06 2.91	-0.55	-0.27 -0.64	2.88 3.15	0.06 0.75	2.92 3.88	20
21	3.49 2.74	-0.27 0.55	3.66 2.33	-1.03 0.60	4.38 2.98	-0.62	0.35 -0.58	3.83 3.05	-0.30 -0.48	2.71 3.34	-0.10 0.90	2.75 3.77	21
22	3.78 3.09	-0.15 1.04	3.92 2.54	-0.83 0.89	0.96 -0.40	4.25 3.12	0.26 -0.59	3.54 3.21	-0.29 -0.23	2.53 3.92	-0.02 1.19	2.78 3.68	22
23	4.11 3.01	-0.15	4.07 2.66	-0.69	0.77 -0.56	3.86 3.03	0.16 -0.53	3.18 3.36	-0.37 0.06	2.24 3.55	-0.10 1.35	2.83 3.60	23
24	1.02 -0.38	4.07 2.87	0.95 -0.91	4.01 2.53	0.38 -1.18	3.29 3.05	0.00 -0.49	2.79 3.46	-0.33 0.63	2.36 3.85	-0.11 1.33	2.93	24
25	1.10 -0.59	3.93 2.72	0.61 -1.12	3.63 2.51	0.12 -0.92	2.81 3.01	-0.25 -0.24	2.37 3.62	-0.11 1.12	2.63 3.88	3.49 3.12	0.03 1.30	25
26	1.12 -0.72	3.79 2.43	0.51 -1.09	3.36 2.78	-0.17 -0.87	2.20 3.18	-0.15 0.57	2.45 3.99	-0.20 0.99	2.56	3.43 2.92	-0.19 0.75	26
27	0.99 -0.93	3.36 2.42	0.61 -0.63	3.28 3.22	-0.47 -0.61	1.88	-0.05 0.72	2.44	3.70 2.77	-0.30 1.14	3.39 2.95	-0.17 0.64	27
28	0.92 -0.91	3.18	0.61 -0.34	2.97	3.30 1.84	-0.71 -0.12	3.93 2.42	-0.33 0.97	3.68 2.68	-0.46 0.87	3.25 3.12	-0.03 0.38	28
29	2.55 2.78	0.70 -1.03	3.50 2.41	0.17 -0.57	3.54 2.15	-0.76 0.55	3.98 2.49	-0.39 0.96	3.57 2.73	-0.50 0.73	3.14 2.97	-0.11 -0.10	29
30	2.65 2.69	0.43 -0.63	3.39 2.43	-0.17 -0.04	4.01 2.66	-0.36 0.97	3.82 2.54	-0.57 0.96	3.50 2.73	-0.45 0.56	2.79 2.91	-0.25	30
31			3.75 2.66	-0.22 0.53			3.83 2.48	-0.61 0.77	3.42 2.86	-0.39 0.49			31
MAXIMUM	4.93		4.07		4.57		4.26		4.30		4.37		MAXIMUM
MINIMUM	-1.03		-1.12		-1.18		-0.78		-0.64		-0.33		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 7.1 - 12/26/55

ZERO OF GAGE: 1939 TO 1940 -2.20 USED  
1940 0.00 USCGS  
1964 -0.52 USCGS  
1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

B95580 SAN JOAQUIN RIVER AT VENICE ISLAND  
(OCTOBER 1, 1973; THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	2.57 3.73	5.20 6.18	2.35 4.19	5.38 5.56	3.60 4.59	6.39 5.35	3.31 3.91	6.58 4.34	4.97 6.78	4.12 3.06	4.47 3.38	6.98	01
02	2.42 3.70	4.98 5.81	2.07 3.89	5.13 5.30	2.63 3.70	5.66 4.59	3.06 3.23	6.15	4.89 6.68	4.10 2.66	5.57 7.01	4.55 3.03	02
03	2.14 3.88	4.82 5.62	2.11 3.36	5.08 4.78	2.49 3.34	5.70 4.52	4.60 6.78	3.62 3.34	5.12 6.80	4.17 2.65	5.63 6.96	4.56 2.85	03
04	2.02 3.92	4.87 5.48	1.87 2.84	4.98	2.83 3.16	6.06	5.02 7.28	4.18 3.40	5.36 7.12	4.11 2.96	5.46 6.62	4.05 2.61	04
05	2.12 3.85	5.10 5.73	4.53 5.25	1.92 2.95	4.68 6.26	3.19 2.87	5.83 7.86	4.93 3.60	5.61 7.01	3.96 2.85	5.58 6.70	3.83 2.82	05
06	2.51 3.84	5.61	4.91 5.55	2.54 2.52	4.78 6.37	3.38 2.62	5.98 7.87	4.85 3.59	5.40 6.72	3.57	5.96 7.01	3.87 3.29	06
07	5.83 5.57	2.65 3.30	4.79 5.87	2.62 2.48	4.90 6.67	3.57 2.64	6.11 7.82	4.82	2.76 3.54	5.76 6.61	6.46 7.24	4.08 3.54	07
08	5.58 5.51	2.52 3.02	4.92 5.97	2.74 2.32	5.10 6.88	3.79 2.62	3.61 4.92	6.47 7.93	2.84 3.29	5.89 6.16	6.57 6.75	3.86	08
09	5.52 5.57	2.59 2.82	5.01 6.29	3.15 2.42	5.20 6.80	3.84	3.62 4.66	6.42 7.63	2.66 3.12	5.96 5.87	3.28 3.06	6.28 5.99	09
10	5.38 5.66	2.63 2.62	5.12 6.48	3.32	2.39 3.76	5.12 6.85	3.47 4.25	6.29 7.07	2.78 3.09	6.19 5.54	3.15 3.13	6.39 5.92	10
11	5.45 5.97	2.89 2.65	2.35 3.85	5.33 6.85	2.47 4.77	5.66 7.59	3.17 3.92	6.17 6.61	2.99 3.11	6.35 5.26	3.42 3.29	6.66 5.89	11
12	5.43 6.15	3.10	2.73 4.40	6.00 7.14	2.99 4.22	5.82 6.94	3.20 4.11	6.58 6.32	3.13 3.09	6.35 5.15	3.82 3.30	6.82 5.67	12
13	2.47 3.06	5.19 6.12	2.75 4.14	5.60 7.23	2.88 4.33	6.21 6.74	3.23 3.75	6.58 5.54	3.54 2.63	6.26 4.58	3.83 2.91	6.47 5.20	13
14	2.28 3.20	5.11 6.28	3.01 4.03	5.67 6.64	2.87 4.05	6.10 6.12	3.00 3.50	6.45 5.14	3.64 2.38	6.04	3.96 2.82	6.30 5.11	14
15	2.28 3.41	5.21 6.50	2.57 4.07	5.69 6.39	2.59 3.44	5.88 5.24	3.43 3.56	6.78	4.55 5.94	3.80 2.26	4.22 2.75	6.17	15
16	2.39 3.63	5.09 6.32	2.64 4.09	6.12 6.06	2.43 3.25	5.93 4.98	5.44 7.41	4.24 3.93	4.79 6.30	4.16 2.58	5.17 5.92	4.28 2.69	16
17	2.23 3.71	5.07 6.30	2.71 4.21	6.20 6.66	2.74 3.19	6.44	5.42 6.99	4.39 3.27	5.08 6.11	3.87 2.28	5.29 5.81	4.14 2.59	17
18	2.44 3.74	5.26 6.01	3.70 3.99	6.88 5.54	4.86 6.35	3.11 2.83	5.46 7.42	4.64 3.91	4.99 5.92	3.59 2.18	5.42 5.92	4.15 2.67	18
19	2.32 3.63	5.34 6.00	2.86 3.00	6.15	4.77 6.19	3.39 2.49	6.05 7.53	5.08 4.23	5.29 6.33	4.01 2.45	5.61 6.02	3.97 2.82	19
20	2.37 3.34	5.45	5.03 6.46	2.98 3.30	4.79 6.42	3.67 2.59	6.37 7.72	5.42 4.33	5.00 5.71	3.12 2.11	5.93 6.34	4.06 3.26	20
21	5.69 5.71	2.44 3.11	5.51 6.88	3.70 3.25	5.31 7.08	4.53 3.06	6.30 7.43	5.42	4.98 6.02	3.03	6.14 6.11	3.67 2.95	21
22	5.62 6.13	2.72 3.46	5.68 7.03	4.03 3.24	5.66 6.83	4.42 2.72	4.20 4.96	6.06 6.91	2.43 2.90	5.19 5.42	5.95 5.97	3.27 3.16	22
23	6.30 6.12	3.41 2.80	5.74 6.88	4.18	5.39 6.64	4.19	3.80 4.77	5.95 7.04	2.11 2.55	5.01 5.18	6.12 5.86	3.22 3.30	23
24	5.26 5.83	2.77 2.48	2.89 4.22	5.68 6.65	2.55 4.11	5.29 6.49	3.80 4.75	6.12 6.84	2.17 2.41	5.19 5.00	6.23 5.65	3.01 3.37	24
25	5.15 5.87	2.89 2.27	2.66 4.21	5.44 6.73	2.43 4.12	5.25 6.41	3.70 4.77	6.32 6.72	2.38 2.65	5.53 5.03	6.34 5.69	2.99	25
26	5.00 5.94	3.02	2.98 4.45	5.72 6.67	2.47 4.24	5.44 6.45	3.69 4.48	6.31 6.14	2.70 2.83	5.85 5.03	3.55 2.97	6.51 5.79	26
27	2.13 3.02	4.85 5.77	2.63 4.20	5.42 6.09	2.68 4.36	5.75 6.40	3.31 3.97	5.99 5.53	2.97 2.58	6.01 4.73	4.18 3.19	7.02 5.80	27
28	1.97 3.26	4.83 5.98	2.21 3.97	5.04 5.90	2.76 4.36	5.80 6.14	3.14 3.80	6.08 5.17	3.52 3.26	6.62 5.80	4.42 2.78	6.89 5.38	28
29	2.01 3.34	4.76 5.76	2.28 4.37	5.37 5.94	2.81 4.58	6.05 6.06	3.24 3.67	6.22 4.80			4.18 3.03	6.75 5.77	29
30	1.87 3.45	4.67 5.63	2.50 4.98	5.80 6.88	3.05 4.06	5.97 5.25	3.35 3.47	6.40 4.64			5.11 3.46	7.45 5.88	30
31	1.86 3.87	4.91 5.77			2.87 3.93	6.08 5.02	3.62 3.37	6.58			4.61 2.79	6.44	31
MAXIMUM	6.50		7.23		7.59		7.93		7.12		7.45		MAXIMUM
MINIMUM	1.86		1.87		2.39		3.00		2.11		2.59		MINIMUM

LOCATION: LAT. 38 03 01, LONG. 121 29 45, NE SEC. 2, T2N, R4E,  
ON LITTLE CONNECTION SLOUGH ON EMPIRE TRACT, 0.7 MILE  
SOUTH OF VENICE ISLAND FERRY.

PERIOD OF RECORD: OCT 1927 TO DATE

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895580 SAN JOAQUIN RIVER AT VENICE ISLAND  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	5.82 6.72	4.42 3.50	5.83 5.56	3.22 2.73	6.94 5.61	2.91 3.77	6.94 5.50	2.53 4.13	6.54 5.37	2.43 3.75	6.27 5.85	2.89 3.41	01
02	6.69 7.00	4.75 4.04	6.02 5.35	2.83 2.65	7.03 5.71	2.80 3.88	6.93 5.51	2.47 4.21	6.63 5.69	2.60 3.97	6.18 6.08	3.06 3.41	02
03	6.98 6.86	4.75 4.20	6.19 5.45	2.73 3.20	6.97 5.76	2.66 4.23	6.94 5.63	2.55 4.19	6.77 5.82	2.97 3.86	3.48 3.23	6.05 6.17	03
04	7.00 6.79	4.53 4.23	6.58 5.70	2.86 3.51	7.05 5.70	2.65 4.14	6.85 5.47	2.43 3.92	6.59 5.86	2.91 3.25	3.32 3.25	5.89 6.15	04
05	7.32 7.24	4.69 4.90	6.81 5.77	2.80 3.83	6.73 5.71	2.45 4.35	6.66 5.65	2.45 4.05	3.66 2.91	6.36 5.85	3.16 3.19	5.61 6.20	05
06	7.70 6.71	4.61 4.52	6.87 5.71	2.76 3.89	6.79 5.74	2.48 4.36	6.62 5.66	2.51 3.92	3.50 2.63	5.81 5.77	3.05 3.37	5.45 6.28	06
07	7.25 6.43	4.02	6.03 5.65	2.58 4.01	6.72 5.78	2.51	3.87 2.44	6.30 5.64	3.31 2.85	5.61 5.94	2.95 3.93	5.40 6.63	07
08	4.49 4.00	7.34 6.92	6.85 5.77	2.65	4.42 2.31	6.48 5.70	3.61 2.29	5.86 5.68	3.25 2.78	5.30 6.07	3.02 4.24	5.38 6.75	08
09	4.99 4.05	7.52 6.35	4.36 2.67	6.00 5.77	4.37 2.51	6.38 5.95	3.57 2.29	5.67 5.79	3.27 3.36	5.35 6.62	2.87 4.26	5.32 6.71	09
10	4.64 3.30	6.80 5.66	4.38 2.31	6.43 5.48	4.33 2.58	6.02 6.07	3.47 2.48	5.39 5.93	3.35 3.68	5.18 6.77	2.75 4.21	5.42 6.74	10
11	4.45 3.12	6.53 5.55	4.35 2.17	6.04 5.53	4.29 2.81	5.78 6.23	3.11 2.37	4.75 5.97	3.09 4.12	5.15 7.02	2.70 3.95	5.55	11
12	4.45 3.01	6.27 5.51	4.37 2.43	5.87 5.61	4.11 2.87	5.32 6.32	2.80 2.62	4.47 6.07	3.02 4.50	5.48 7.15	6.79 6.06	2.95 4.33	12
13	4.55 2.81	5.94	4.04 2.16	5.00	3.76 3.16	5.06 6.42	2.52 3.14	4.46 6.39	2.90 4.24	5.53	7.19 6.18	3.33 4.15	13
14	5.47 5.60	4.47 2.75	5.50 4.81	3.68 2.48	3.19 3.29	4.84	2.44 3.63	4.68	6.95 5.38	2.53 3.91	6.96 6.15	3.15 3.64	14
15	5.65 5.54	4.38 2.89	5.88 4.79	3.55 2.69	6.42 4.96	2.77 3.59	6.73 5.09	2.47 4.06	6.95 5.56	2.59 3.79	6.61 6.25	3.12 3.41	15
16	5.69 5.37	4.03 2.85	5.92 4.58	3.14 2.97	6.64 5.13	2.58 3.77	6.90 5.21	2.37 4.07	6.88 5.60	2.58 3.46	6.42 6.39	3.26	16
17	5.82 5.91	4.03 3.60	6.18 4.87	2.84 3.04	6.96 5.48	2.63 4.25	7.08 5.40	2.40 3.94	6.64 5.62	2.52 3.18	3.15 3.16	6.14 6.43	17
18	6.28 5.71	3.66 3.11	6.06 4.82	2.42 3.11	7.32 5.77	2.78 4.36	7.09 5.42	2.40 3.71	6.35 5.83	2.52	3.16 3.40	6.08 6.66	18
19	6.00 5.44	3.14 3.25	6.24 4.99	2.26 3.21	7.40 5.66	2.53 4.19	7.00 5.51	2.43 3.51	3.12 2.46	6.17 5.78	3.26 3.63	5.98 6.77	19
20	6.22 5.55	3.04 3.36	6.31 4.98	2.08 3.33	7.24 5.70	2.41 4.01	6.88 5.72	2.53 3.41	2.80 2.43	5.71 5.94	3.14 3.77	5.74 6.70	20
21	6.31 5.56	2.79 3.58	6.47 5.12	2.04 3.63	7.20 5.81	2.47	6.64 5.87	2.49	2.78 2.61	5.53 6.14	2.96 3.91	5.58 6.61	21
22	6.60 5.89	2.89 4.09	6.73 5.36	2.23 3.93	4.02 2.64	7.07 5.94	3.34 2.50	6.37 6.03	2.78 2.84	5.36 6.24	3.04 4.20	5.61 6.53	22
23	6.93 5.89	2.91 4.06	6.88 5.52	2.34	3.81 2.49	6.69 5.86	3.25 2.56	6.00 6.17	2.71 3.09	5.11 6.38	2.95 4.34	5.63 6.43	23
24	6.90 5.70	2.71	4.00 2.19	6.83 5.36	3.43 2.24	6.12 5.88	3.08 2.61	5.63 6.28	2.73 3.66	5.19 6.68	2.93 4.35	5.75	24
25	4.11 2.47	6.76 5.56	3.66 1.94	6.45 5.34	3.19 2.12	5.65 5.83	2.83 2.81	5.19 6.47	2.95 4.13	5.48 6.72	6.35 5.93	3.08 4.33	25
26	4.14 2.32	6.63 5.26	3.55 1.99	6.18 5.61	2.98 2.17	5.03 5.97	2.92 3.56	5.28 6.82	2.86 4.02	5.40	6.26 5.73	2.85 3.79	26
27	3.99 2.09	6.18 5.25	3.64 2.44	6.12 6.04	2.58 2.41	4.72	2.99 3.73	5.29	6.56 5.58	2.76 4.16	6.21 5.77	2.88 3.67	27
28	3.93 2.05	5.99 5.36	3.68 2.71	5.80 6.32	6.12 4.68	2.34 2.91	6.78 5.25	2.73 4.01	6.52 5.49	2.59 3.89	6.08 5.91	3.01 3.40	28
29	3.71 2.02	5.61	3.24 2.48	5.24	6.38 4.97	2.31 3.61	6.74 5.32	2.66 4.04	6.39 5.53	2.57 3.77	5.96 5.79	2.96 2.97	29
30	5.47 5.52	3.47 2.41	6.22 5.23	2.88 3.00	6.84 5.48	2.71 4.04	6.66 5.38	2.50 4.03	6.33 5.56	2.63 3.61	5.60 5.73	2.82	30
31			6.57 5.46	2.64 3.57			6.70 5.30	2.46 3.83	6.25 5.68	2.68 3.53			31
MAXIMUM	7.70		6.88		7.40		7.09		7.15		7.19		MAXIMUM
MINIMUM	2.02		1.94		2.12		2.29		2.43		2.70		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 10.7 - 12/26/55

ZERO OF GAGE: 1927 -3.45 USCGS  
1959 -4.00 USCGS  
1964 -4.01 USCGS  
1964 TO DATE -3.00 USCGS

TABLE B-12 (CONTINUED)

## DAILY TIDES

 895540 MIDDLE RIVER AT HOWRY BRIDGE  
 (OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	3.17 3.90	4.85 5.77	2.93 4.34	5.30 5.42	4.17 4.84	6.30 5.64	4.54 5.07	6.85	6.11 7.07	5.56	5.45 7.03	4.65 3.87	01
02	3.04 3.85	4.72 5.51	2.81 4.04	4.87 5.18	3.42 4.08	5.57 4.77	5.16 6.72	4.30 4.49	5.18 5.51	5.99 6.95	5.03 6.51	4.56 3.85	02
03	2.78 3.98	4.59 5.36	2.78 3.51	4.64	3.20 3.83	5.46	5.22 6.57	4.49	4.98 5.52	6.08 7.02	5.61 7.16	4.91	03
04	2.72 4.02	4.67	4.65 4.41	2.66 3.08	4.82 5.77	3.40 3.78	4.60 5.02	5.63 7.35	4.87 5.36	6.12 7.27	4.18 4.70	5.79 6.68	04
05	5.25 4.82	2.83 3.92	4.16 4.88	2.64 3.11	4.98 5.99	3.69	4.98 5.77	6.51 8.39	4.94 5.40	6.41 7.38	3.99 4.57	5.87 6.74	05
06	5.35 4.99	3.01 3.95	4.94 5.53	2.96	3.66 3.83	5.04 6.11	5.27 5.82	6.73 8.41	4.84 5.06	6.17 7.23	4.07 4.65	6.15 6.92	06
07	5.35 4.77	3.05 3.43	3.04 3.06	4.84 5.59	3.56 3.98	5.08 6.39	5.37 5.89	6.88 8.42	4.70 4.94	6.36 7.05	4.44 4.95	6.66 7.07	07
08	4.86 5.09	2.98	2.97 3.03	4.21 5.36	3.66 4.18	5.28 6.53	5.40 5.97	6.91 8.47	4.58 4.67	6.36 6.23	4.82 5.12	6.93 6.78	08
09	3.31 3.10	5.02 5.19	2.96 3.38	5.01 5.92	3.67 4.25	5.48 6.39	5.47 5.99	7.18 8.27	4.31 4.45	6.00 6.28	4.59 4.48	5.92 6.38	09
10	3.23 3.09	4.85 5.27	3.03 3.49	4.96 5.85	3.52 4.21	5.17 6.60	5.53 5.82	7.13 7.80	4.29 4.36	6.10 5.96	4.58 4.60	6.53 6.33	10
11	3.11 3.25	4.83 5.49	3.01 3.92	5.34 6.19	3.61 5.04	5.72 7.39	5.36 5.64	7.00 7.40	4.23 4.27	6.17 5.67	4.67 4.60	6.91 6.22	11
12	3.15 3.37	4.90 5.64	3.26 4.48	5.58 6.76	4.03 4.67	6.15 6.90	5.35 5.74	7.36 7.15	4.12 4.09	6.18	4.79 4.43	7.12 6.00	12
13	3.07 3.28	4.68 5.50	3.31 4.22	5.67 6.77	3.97 4.80	6.51 7.09	5.29 5.47	7.35 6.41	5.54 6.19	4.30 3.92	4.65 4.14	6.82	13
14	2.96 3.36	4.55 5.41	3.46 4.12	5.76 6.32	3.96 4.56	6.05 6.50	4.93 5.06	6.76	5.06 6.05	4.34 3.80	5.58 6.63	4.59 3.98	14
15	2.92 3.78	4.70 6.01	3.15 4.11	5.60 6.12	3.68 4.01	5.73 5.57	5.96 7.02	4.82 4.92	4.99 5.96	4.43	5.46 6.51	4.71 3.73	15
16	3.03 3.77	5.21 6.42	3.12 4.16	5.65	3.43 3.96	5.79	6.11 7.88	5.19	3.77 4.70	5.26 6.20	4.92 5.99	4.54 3.62	16
17	2.95 3.80	4.85 5.97	5.95 5.59	3.24 4.27	5.31 6.25	3.57 4.04	5.24 5.33	6.15 7.25	3.92 4.52	5.31 6.31	5.14 5.99	4.47	17
18	3.01 3.87	5.40	6.30 7.01	3.96 4.29	5.27 6.32	3.85	4.83 5.42	6.16 7.95	3.65 4.16	4.94 5.79	3.54 4.42	5.60 6.19	18
19	5.70 5.45	2.95 3.87	5.31 5.87	3.31	3.82 3.96	5.14 6.15	5.27 5.91	6.65 8.14	3.45 4.48	5.22 6.26	3.50 4.28	5.72 6.15	19
20	5.67 5.57	3.01 3.63	3.41 3.27	5.12 6.12	3.63 4.16	5.13 6.24	5.65 6.36	6.87 8.36	3.58 3.80	5.14 5.69	3.60 4.47	6.04 6.34	20
21	5.24 5.22	3.05 3.44	3.80 4.04	5.70 6.59	3.74 4.83	5.59 6.78	5.85 6.51	7.19 8.09	3.28 3.67	4.89 5.80	3.93 4.17	6.23 5.91	21
22	5.20 5.65	3.20	3.93 4.35	5.87 6.82	4.10 4.87	6.02 6.73	5.70 6.01	6.92 7.61	3.50 3.72	5.05 5.49	3.70 3.80	5.57 5.72	22
23	3.71 3.73	5.94 5.90	4.01 4.53	5.98 6.78	3.94 4.72	5.78 6.57	5.46 5.99	6.66 7.82	3.32 3.47	4.80 5.04	3.81 3.88	6.16 5.95	23
24	3.27 3.22	5.34 5.43	3.76 4.61	5.92 6.58	3.85 4.62	5.67 6.43	5.66 6.06	7.06 7.64	3.29 3.37	4.83 4.98	3.91 3.71	5.81 5.71	24
25	3.04 3.26	4.83 5.45	3.59 4.43	5.65 6.23	3.73 4.62	5.58 6.38	5.62 6.18	7.23 7.60	3.37 3.45	5.68 4.77	3.93 3.79	6.02 5.84	25
26	2.97 3.36	4.72 5.50	3.70 4.67	5.95 6.42	3.74 4.70	5.79 6.26	5.72 6.24	6.95 7.23	3.48 3.57	6.00 4.73	4.16 3.81	6.52 5.96	26
27	2.91 3.29	4.77 5.36	3.53 4.40	5.42 6.01	3.80 4.80	5.84 6.56	5.59 5.83	6.96 6.66	3.61 3.39	6.19	4.60 4.25	6.78	27
28	2.84 3.48	4.44 5.33	3.23 4.22	5.09 5.88	4.00 4.96	6.18 6.46	5.45 5.67	6.83 6.32	4.67 6.61	3.93 3.72	5.96 6.83	4.90 4.21	28
29	2.88 3.68	4.49 5.42	3.29 4.61	5.62 5.94	4.28 5.43	6.33 6.56	5.29 5.45	6.82			5.79 6.69	4.89 4.45	29
30	2.76 3.56	4.50 5.30	3.43 5.09	5.73 6.71	4.71 5.15	6.42 5.80	5.97 6.94	5.26 5.50			6.15 7.37	5.59 4.78	30
31	2.73 4.02	4.62 5.54			4.35 4.93	6.22 5.75	5.96 7.45	5.47 5.43			6.40 6.50	5.32	31
MAXIMUM	6.42		7.01		7.39		8.47		7.38		7.37		MAXIMUM
MINIMUM	2.72		2.64		3.20		4.30		3.28		3.50		MINIMUM

 LOCATION: LAT. 37 50 04, LONG. 121 22 59, NE SEC. 24, T1S, R5E,  
 AT UNDINE ROAD CROSSING ON UPPER ROBERTS ISLAND.

 PERIOD OF RECORD: JULY 1948 TO SEPT 1966  
 MARCH 1968 TO DATE



TABLE B-12 (CONTINUED)

## DAILY TIDES

 895540 MIDDLE RIVER AT MOWRY BRIDGE  
 (APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	4.43 5.13	5.78 6.71	NR	NR	6.34 5.39	3.90 4.40	5.98 4.77	2.78 4.11	5.52 4.59	2.63	3.73 3.28	5.58 5.26	01
02	4.93 5.70	6.96 7.27	NR	NR	6.47 5.42	3.94	5.96 5.04	2.82	3.71 2.82	5.57 4.87	3.71 3.40	5.61 5.78	02
03	5.38 5.88	7.40 7.56	NR	NR	4.59 4.01	6.43 6.07	4.15 2.97	5.92 5.13	3.95 3.10	5.74 5.01	3.85 3.61	6.09 5.78	03
04	5.71 5.95	7.67 7.48	NR	NR	4.93 4.00	6.49 5.86	4.15 2.87	5.88 4.76	3.87 3.09	5.82 5.00	3.74 3.62	5.97 6.21	04
05	5.71 5.96	7.56 7.88	NR	NR	4.78 3.79	6.34 5.93	3.76 2.67	5.53 4.99	3.70 3.06	5.36 5.10	3.59 3.55	5.72 6.28	05
06	6.16 6.09	7.82 7.48	NR	NR	4.86 3.74	6.37 5.88	3.99 2.79	5.63 4.93	3.56 2.77	4.96 4.98	3.54 3.57	5.53 5.68	06
07	5.94 5.74	7.58 7.24	NR	NR	4.83 3.91	6.33 6.11	3.77 2.52	5.33 4.93	3.36 2.92	4.74 5.08	3.28 4.08	5.54 6.37	07
08	5.90 5.78	7.53 7.58	NR	NR	4.91 3.44	6.03 5.60	3.51 2.45	4.75 4.95	3.27 2.80	4.52 5.15	3.50 4.40	5.53 6.92	08
09	6.18 5.66	7.77 7.11	NR	NR	4.75 3.74	6.03	3.54 2.70	4.82	3.30 3.35	4.58	3.38 4.35	5.54	09
10	5.77 5.09	7.48 6.41	NR	NR	5.52 6.19	4.79 3.83	4.85 4.64	3.56 2.78	5.62 4.44	3.27 3.66	6.67 5.56	3.27 4.35	10
11	5.46 4.81	7.18	5.80 5.49	3.32	5.79 5.79	4.86 4.07	4.97 4.15	3.27 2.70	5.77 4.50	3.18 3.95	6.73 5.07	3.40 4.01	11
12	6.26 6.99	5.39 4.70	4.76 3.60	5.67 5.35	6.15 5.44	4.66 3.78	4.92 3.97	3.04 2.93	6.06 4.84	3.20 4.36	6.17 6.16	3.41 4.52	12
13	5.88 6.24	5.39 4.44	4.55 3.50	5.07	6.07 5.06	4.18 3.76	5.06 3.68	2.45 3.19	6.26 4.85	3.05 4.15	6.78 6.41	3.87	13
14	6.08 6.27	5.27 4.40	5.22 4.81	4.26 3.39	6.11 4.75	3.69 3.73	5.39 4.01	2.56 3.50	5.98 4.85	2.59 3.81	4.41 3.57	6.60 6.28	14
15	5.93 6.21	5.22 4.38	5.47 5.13	4.04 3.59	5.88 4.63	3.38 3.82	5.78 4.35	2.64 3.84	5.82 4.92	2.72 3.76	3.87 3.54	6.06 6.39	15
16	NR	NR	6.09 4.96	4.03 3.89	6.05 4.70	3.27 4.09	5.91 4.67	2.57 3.95	5.74 5.04	2.91	3.75 3.62	6.51 5.86	16
17	NR	NR	6.35 5.17	3.95 3.96	6.26 5.33	3.41 4.68	6.15 4.68	2.71 3.88	3.55 2.91	5.54 4.81	3.50 3.21	5.48 6.41	17
18	NR	NR	6.24 4.70	3.74	6.76 5.92	3.62	5.94 4.67	2.46	3.33 2.89	5.28 4.83	3.42 3.47	5.52 6.65	18
19	NR	NR	3.93 3.68	5.76 4.59	4.77 3.55	6.58 5.59	3.72 2.65	5.77 4.80	3.33 2.87	5.10 4.92	3.50 3.72	5.55 6.82	19
20	NR	NR	4.00 3.67	5.98 4.67	4.58 3.42	6.56 5.69	3.59 2.82	5.63 4.80	3.15 2.89	4.80 5.08	3.42 3.86	5.37 6.81	20
21	NR	NR	4.11 3.55	5.83 5.28	4.37 3.27	6.25 5.36	3.49 2.83	5.45 4.86	3.13 2.89	4.64 5.25	3.42 4.13	5.31 6.81	21
22	NR	NR	4.30 3.41	6.80 5.45	4.29 3.31	6.16 5.35	3.43 2.72	5.24 4.92	3.11 3.04	4.57 5.34	3.54 4.42	5.36	22
23	NR	NR	4.34 3.23	6.91 5.50	4.08 3.21	5.83 5.05	3.30 2.64	4.89	2.88 3.17	4.48	6.15 5.58	3.37 4.48	23
24	NR	NR	4.18 3.02	6.83 4.50	3.70 2.86	5.24	4.95 4.58	3.07 2.71	5.50 4.44	2.94 3.70	6.67 5.62	3.35 4.49	24
25	NR	NR	3.68 2.78	5.89	5.09 4.87	3.48 2.77	5.03 4.16	2.75 2.83	5.80 4.91	3.15 4.26	6.56 5.76	3.58 4.52	25
26	NR	NR	4.67 5.46	3.74 2.78	5.02 4.35	3.05 2.73	5.22 4.42	2.86 3.61	5.99 5.02	3.10 4.06	6.45 5.52	3.42 4.10	26
27	NR	NR	4.93 5.57	3.79 3.12	4.96 4.04	2.78 2.80	5.72 4.47	2.92 3.78	5.89 5.35	3.00 4.21	5.97 5.91	3.40	27
28	NR	NR	5.87 5.40	3.89 3.31	5.06 3.94	2.77 3.00	5.67 4.48	2.81 3.89	6.02 5.46	3.01 3.97	4.00 3.51	5.90 6.07	28
29	NR	NR	5.69 5.06	3.63 3.29	5.29 4.15	2.56 3.47	5.80 4.61	2.71 3.95	5.85 5.47	2.96	3.88 3.49	6.06 5.87	29
30	NR	NR	5.63 5.34	3.50 3.78	5.76 4.81	3.00 3.98	5.75 4.63	2.69 3.91	3.88 2.99	5.77 5.53	3.50 3.39	5.71 5.43	30
31			5.87 5.49	3.72 4.25			5.74 4.53	2.49 3.75	3.76 3.03	5.61 5.29			31
MAXIMUM	NR		NR		6.76		6.15		6.26		6.92		MAXIMUM
MINIMUM	NR		NR		2.56		2.45		2.59		3.21		MINIMUM

NR = NO RECORD

 MAXIMUM GAGE HEIGHT OF RECORD: 16.8 - 12/10/50  
 MAXIMUM OF RECORD IS MAXIMUM RECORDED STAGE --

 ZERO OF GAGE: 1948 TO 1952 -2.70 USCGS  
 1952 -2.67 USCGS  
 1964 -3.23 USCGS  
 1964 TO DATE -3.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

B95500 MIDDLE RIVER AT BORDEN HIGHWAY  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	-0.58 0.63	1.74 2.69	-0.78 1.13	2.06 2.25	0.48 1.45	3.04 2.26	NR	NR	2.01 3.37	1.00 0.08	1.32 0.09	3.67	01
02	-0.73 0.62	1.60 2.40	-1.06 0.76	1.73 2.03	-0.46 0.58	2.31 1.46	NR	NR	1.90 3.26	1.03 -0.30	1.89 3.34	1.32 -0.66	02
03	-1.03 0.82	1.53 2.25	-1.03 0.22	1.59 1.52	-0.64 0.23	2.21	1.54 3.18	0.51 0.28	2.12 3.38	1.11 -0.28	2.32 3.63	1.49 -0.23	03
04	-1.14 0.83	1.52 2.12	-1.29 -0.29	1.44	1.41 2.53	-0.31 0.05	1.98 3.87	1.11 0.49	2.30 3.68	1.06	2.25 3.22	0.89 -0.52	04
05	-1.03 0.72	1.70	1.13 1.78	-1.24 -0.25	1.57 2.73	0.06 -0.21	2.80 4.81	1.87	0.06 1.10	2.58 3.81	2.35 3.29	0.68 -0.28	05
06	2.29 1.98	-0.62 0.75	1.67 2.24	-0.62 -0.59	1.67 2.86	0.19 -0.47	0.68 1.81	2.97 4.78	0.01 0.67	2.40 3.55	2.66 3.55	0.73	06
07	2.34 1.90	-0.53 0.16	1.56 2.50	-0.51 -0.66	1.75 3.14	0.46	0.73 1.83	3.11 4.78	-0.16 0.54	2.62 3.41	0.17 0.95	3.17 3.70	07
08	1.94 2.00	-0.65 -0.17	1.31 2.34	-0.39	-0.38 0.68	1.96 3.29	0.72 1.93	3.26 4.83	-0.13 0.30	2.69 2.74	0.48 0.90	3.35 3.29	08
09	1.99 2.08	-0.51 -0.32	-0.78 0.01	1.77 2.81	-0.42 0.75	2.05 3.18	0.75 1.70	3.39 4.55	-0.32 0.12	2.50 2.69	0.07 0.01	2.52 2.76	09
10	1.86 2.16	-0.49	-0.68 0.19	1.85 2.82	-0.60 0.71	1.86 3.35	0.62 1.31	3.28 4.02	-0.21 0.07	2.67 2.36	0.05 0.08	2.94 2.70	10
11	-0.52 -0.25	1.84 2.43	-0.75 0.75	2.08 3.17	-0.54 1.74	2.36 4.12	0.33 0.98	3.15 3.59	-0.05 0.06	2.77 2.11	0.34 0.22	3.38 2.62	11
12	-0.49 -0.04	1.89 2.58	-0.38 1.27	2.49 3.63	0.01 1.17	2.69 3.60	0.31 1.15	3.53 3.30	0.04 0.02	2.83 2.02	0.70 0.03	3.59 2.43	12
13	-0.65 -0.10	1.69 2.47	-0.33 1.01	2.35 3.66	-0.07 1.27	3.07 3.63	0.34 0.81	3.54 2.52	0.43 -0.42	2.79	0.68 -0.41	3.30 2.03	13
14	-0.84 0.09	1.58 2.50	-0.09 0.90	2.43 3.17	-0.07 1.02	2.70 3.03	0.04 0.52	3.16 2.16	1.50 2.62	0.51 -0.67	0.79 -0.46	3.14	14
15	-0.85 0.53	1.66 2.92	-0.54 0.90	2.40 2.97	-0.38 0.37	2.47 2.17	0.41 0.56	3.50	1.45 2.55	0.70 -0.76	1.96 3.04	1.08 -0.50	15
16	-0.71 0.54	1.91 3.08	-0.57 0.89	2.61 2.74	-0.57 0.21	2.49 1.89	2.40 4.32	1.16 0.91	1.68 2.79	1.05 -0.50	1.61 2.63	1.12 -0.45	16
17	-0.86 0.61	1.72 2.81	-0.40 1.01	2.53	-0.34 0.17	2.93	2.41 3.72	1.31 0.27	1.84 2.62	0.79 -0.77	1.86 2.56	1.03 -0.53	17
18	-0.66 0.61	2.06 2.57	3.16 3.65	0.52 0.88	1.81 3.00	0.54 -0.21	2.44 4.35	1.45 0.90	1.59 2.47	0.49	2.19 2.77	0.95 -0.43	18
19	-0.81 0.50	2.10	2.14 2.70	-0.24 -0.12	0.28 -0.52	2.81	2.98 4.46	1.99	-0.90 1.01	1.90 2.90	2.35 2.81	0.78 -0.32	19
20	2.56 2.22	-0.73 0.23	1.80 2.91	-0.21 0.19	1.70 3.00	0.59 -0.41	1.19 2.37	3.16 4.66	-0.60 0.05	1.77 2.33	2.65 3.07	0.89 0.11	20
21	2.20 2.17	-0.68 -0.01	2.33 3.39	0.55 0.18	2.16 3.51	1.45 0.05	1.34 2.48	3.34 4.40	-0.97 -0.12	1.58 2.50	2.85 2.65	0.53	21
22	2.15 2.60	-0.41 0.23	2.48 3.57	0.89	2.55 3.37	1.33 -0.25	1.22 1.94	3.06 3.86	-0.66 -0.16	1.73 2.11	-0.15 0.10	2.34 2.46	22
23	2.84 2.77	0.28 -0.28	0.16 1.05	2.56 3.49	NR	NR	0.82 1.72	2.83 4.00	-0.96 -0.53	1.52 1.71	-0.02 0.06	2.81 2.60	23
24	2.05 2.35	-0.33	-0.22 1.16	2.50 3.31	NR	NR	0.85 1.69	3.12 3.79	-0.92 -0.70	1.61 1.56	0.15 -0.10	2.58 2.37	24
25	-0.63 -0.18	1.75 2.37	-0.38 1.04	2.26 3.10	NR	NR	0.72 1.78	3.30 3.70	-0.74 -0.48	2.23 1.36	0.19 -0.14	2.77 2.42	25
26	-0.82 -0.07	1.64 2.42	-0.12 1.31	2.55 3.20	NR	NR	0.73 1.69	3.04 3.22	-0.45 -0.48	2.56 1.44	0.42 -0.18	3.22 2.55	26
27	-0.96 -0.09	1.63 2.25	-0.45 1.06	2.16 2.75	NR	NR	0.36 0.98	2.97 2.53	-0.14 -0.82	2.76 1.27	1.03 0.04	3.40 2.53	27
28	-1.12 0.16	1.44 2.33	-0.87 0.84	1.79 2.59	NR	NR	0.17 0.81	2.89 2.19	0.38 -0.32	3.26 2.29	1.18 -0.27	3.49 2.22	28
29	-0.90 0.40	1.41 2.32	-0.79 1.25	2.23 2.63	NR	NR	0.26 0.67	3.01 1.83			1.02 -0.08	3.29	29
30	-1.20 0.36	1.37 2.19	-0.58 1.83	2.48 3.46	NR	NR	0.32 0.48	3.14 1.69			2.58 3.99	1.94 0.38	30
31	-1.24 0.83	1.52 2.40			NR	NR	0.58 0.36	3.56			2.79 3.04	1.46 -0.20	31
MAXIMUM	3.08		3.66		NR		NR		3.81		3.99		MAXIMUM
MINIMUM	-1.24		-1.29		NR		NR		-0.97		-0.53		MINIMUM

NR - NO RECORD

LOCATION: LAT. 37 53 28, LONG. 121 29 20, NW SEC. 36, T1N, R4E,  
VICTORIA ISLAND BELOW STATE HWY 4 BRIDGE, 10 MILES  
NW OF TRACY.

PERIOD OF RECORD: JULY 1939 TO DATE

TABLE B-12 (CONTINUED)

## DAILY TIDES

B95500 MIDDLE RIVER AT BORDEN HIGHWAY  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	2.34	1.18	2.44	0.08	3.12	-0.23	3.11	-0.65	2.75	-0.76	NR	NR	01
	3.24	0.50	2.35	-0.41	2.08	0.64	1.89	0.94	1.73	0.55			
02	3.41	1.68	2.49	-0.26	3.26	-0.29	3.12	-0.67	2.81	-0.59	NR	NR	02
	3.66	0.96	2.17	-0.28	2.12	0.78	2.06	0.99	2.03	0.82			
03	3.80	1.70	2.62	-0.35	3.18	-0.45	3.11	-0.58	2.96	-0.22	NR	NR	03
	3.60	1.14	2.22	0.05	2.55	1.06	2.12	0.95	2.14				
04	3.88	1.51	2.94	-0.20	3.28	-0.42	3.06	-0.70	0.72	2.81	NR	NR	04
	3.67	1.19	2.33	0.35	2.46	1.02	1.87	0.66	-0.26	2.14			
05	3.92	1.61	3.48	-0.24	3.08	-0.63	2.82	-0.73	0.52	2.58	NR	NR	05
	4.11		2.51	0.67	2.48		2.07		-0.28	2.19			
06	1.82	4.23	3.58	-0.55	1.22	3.14	0.83	2.85	0.32	2.16	NR	NR	06
	1.65	3.65	2.12		-0.60	2.51	-0.68	2.03	-0.50	2.11			
07	1.69	3.91	-0.75	3.11	-0.21	3.11	-0.59	2.53	-0.12	1.97	NR	NR	07
	1.07	3.38	-0.49	2.38	-0.37	2.68	-0.76	1.98	-0.36	2.25			
08	1.44	3.88	0.84	3.18	1.27	2.86	0.31	2.07	0.05	1.72	NR	NR	08
	1.04	3.81	-0.44	2.53	-0.78	2.36	-0.93	2.03	-0.44	2.33			
09	1.94	4.17	1.21	3.19	1.27	2.82	0.26	1.96	0.06	1.76	NR	NR	09
	1.10	3.34	-0.43	2.49	-0.60	2.26	-0.91	1.97	0.20	2.81			
10	1.58	3.75	1.24	2.91	1.16	2.76	0.30	1.77	0.12	1.62	NR	NR	10
	0.38	2.63	-0.73	2.25	-0.50	2.48	-0.75	2.08	0.59				
11	1.40	3.50	1.18	2.56	1.21	2.40	-0.04	1.20	2.95	-0.13	NR	NR	11
	0.17	2.52	-0.89	2.19	-0.28		-0.79	2.09	1.59	0.93			
12	1.45	3.32	1.24	2.39	2.79	0.94	-0.42	0.97	3.19	-0.18	NR	NR	12
	0.11		-0.73		2.10	-0.28	-0.43		1.93	1.33			
13	2.27	1.54	2.05	0.85	2.82	0.57	2.22	-0.67	3.41	-0.30	NR	NR	13
	2.70	-0.21	1.68	-1.01	1.82	0.00	0.91	-0.02	1.96	1.07			
14	2.43	1.34	1.95	0.56	2.83	0.01	2.51	-0.77	3.16	-0.64	NR	NR	14
	2.59	-0.26	1.52	-0.77	1.56	0.09	1.12	0.46	1.86	0.68			
15	2.37	1.30	2.22	0.36	2.75	-0.42	2.89	-0.70	3.08	-0.60	NR	NR	15
	2.54	-0.15	1.71	-0.55	1.47	0.47	1.49	0.80	2.00				
16	2.44	0.95	2.68	0.02	2.94	-0.61	3.08	-0.79	0.58	2.98	NR	NR	16
	2.32	-0.22	1.50	-0.27	1.53	0.59	1.74	0.87	-0.60	2.07			
17	2.51	0.92	2.91	-0.33	3.12	-0.52	3.28	-0.75	0.31	2.77	NR	NR	17
	2.85	0.55	1.68	-0.14	2.06	1.19	1.83	0.75	-0.62	1.92			
18	2.88	0.58	2.81	-0.68	3.58	-0.36	3.21	-0.74	-0.01	2.51	NR	NR	18
	2.59	0.07	1.35	-0.14	2.52	1.22	1.79	0.52	-0.62	2.03			
19	2.59	0.11	2.48	-0.86	3.51	-0.55	3.12	-0.72	-0.07	2.34	NR	NR	19
	2.31	0.17	1.27	0.00	2.29	1.04	1.89	0.39	-0.66	2.02			
20	2.75	0.08	2.69	-1.01	3.47	-0.67	3.01	-0.64	-0.36	1.97	NR	NR	20
	2.22	0.25	1.34	0.21	2.34		1.96		-0.75				
21	2.77	-0.22	2.64	-1.06	0.90	3.31	0.26	2.76	2.19	-0.41	NR	NR	21
	2.15	0.49	1.88	0.46	-0.65	2.25	-0.64	2.07	1.82	-0.60			
22	3.02	-0.13	3.44	-0.86	0.91	3.25	0.18	2.52	2.36	-0.40	NR	NR	22
	2.71		2.10		-0.48	2.31	-0.69	2.19	1.72	-0.35			
23	0.95	3.74	0.78	3.60	0.69	2.89	0.07	2.21	NR	NR	NR	NR	23
	-0.09	2.67	-0.72	2.21	-0.66	2.10	-0.65	2.28					
24	0.94	3.34	0.79	3.53	0.26	2.34	-0.12	1.89	NR	NR	NR	NR	24
	-0.33	2.56	-0.82	1.56	-0.87	2.14	-0.60	2.36					
25	0.99	3.23	0.42	2.80	-0.03	1.92	-0.39	1.53	NR	NR	NR	NR	25
	-0.56	2.34	-1.19	1.68	-1.01	2.13	-0.31						
26	1.01	3.14	0.46	2.48	-0.34	1.45	2.52	-0.30	NR	NR	NR	NR	26
	-0.68	2.08	-1.17	1.90	1.00		1.63	0.47					
27	0.86	2.65	0.53	2.52	2.11	-0.61	2.94	-0.23	NR	NR	NR	NR	27
	-0.96		-0.77		1.16	-0.75	1.69	0.65					
28	2.02	0.82	2.75	0.47	2.23	-0.85	2.90	-0.47	NR	NR	NR	NR	28
	2.59	-0.89	2.41	-0.51	1.10	-0.19	1.63	0.80					
29	1.92	0.59	2.68	0.04	2.50	-0.87	2.96	-0.50	NR	NR	NR	NR	29
	2.24	-1.03	1.82	-0.71	1.36	0.38	1.75	0.89					
30	2.11	0.34	2.51	-0.28	2.97	-0.46	2.92	-0.67	NR	NR	NR	NR	30
	2.36	-0.66	2.00	-0.15	1.85	0.83	1.79	0.87					
31			2.73	-0.30			2.92	-0.74	NR	NR			31
			2.22	0.40			1.69	0.70					
MAXIMUM	4.23		3.60		3.58		3.28		NR		NR		MAXIMUM
MINIMUM	-1.03		-1.19		-1.01		-0.93		NR		NR		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 7.2 - 12/26/65

ZERO OF GAGE: 1939 TO 1943 -4.10 USCGS  
1943 0.00 USCGS  
1964 -0.59 USCGS  
1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895460 MIDDLE RIVER AT BACON ISLAND  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	NR	NR	2.31 4.18	5.32 5.52	3.55 4.57	6.35 5.31	3.26 3.96	6.56 4.33	4.95 6.72	4.09 3.04	4.43 3.34	6.93	01
02	NR	NR	2.03 3.85	5.08 5.24	2.60 3.67	5.62 4.57	3.05 3.18	6.10 6.63	4.86 6.63	4.07 2.62	5.48 6.92	4.52 3.00	02
03	2.10 3.87	4.79 5.57	2.08 3.34	5.01 4.75	2.45 3.31	5.63 4.49	4.55 6.70	3.58 3.31	5.10 6.74	4.14 2.62	5.58 6.92	4.55 2.80	03
04	1.98 3.91	4.82	1.83 2.85	4.91	2.80 3.13	5.99	4.99 7.22	4.15 3.38	5.33 7.05	4.08 2.95	5.42 6.56	4.00 2.55	04
05	5.43 5.05	2.08 3.83	4.48 5.19	1.88 2.92	4.64 6.19	3.16 2.84	5.78 7.81	4.89 3.57	5.62 7.03	3.99	5.56 6.64	3.78 2.77	05
06	5.67 5.52	2.48 3.82	4.85 5.49	2.49 2.49	4.75 6.31	3.34 2.57	5.97 7.81	4.82 3.56	2.84 3.58	5.40 6.68	5.91 6.93	3.83 3.24	06
07	5.77 5.50	2.61 3.26	4.74 5.81	2.59 2.43	4.86 6.61	3.54 2.61	6.09 7.80	4.80	2.73 3.51	5.72 6.56	6.41 7.20	4.04 3.50	07
08	5.51 5.45	2.49	4.86 5.90	2.72 2.28	5.06 6.81	3.76 2.58	3.59 4.90	6.44 7.88	2.82 3.25	5.84 6.12	6.52 6.69	3.86	08
09	2.95 2.56	5.47 5.52	4.97 6.23	3.10 2.38	5.17 6.73	3.81	3.58 4.63	6.39 7.57	2.63 3.09	5.91 5.83	3.24 3.02	6.21 5.95	09
10	2.78 2.60	5.34 5.60	5.06 6.41	3.31	2.35 3.75	5.09 6.78	3.44 4.23	6.27 7.04	2.75 3.06	6.13 5.51	3.11 3.10	6.31 5.88	10
11	2.58 2.85	5.34 5.91	2.32 3.80	5.29 6.78	2.43 4.77	5.60 7.52	3.14 3.90	6.14 6.59	2.97 3.09	6.28 5.21	3.39 3.26	6.60 5.84	11
12	2.61 3.07	5.39 6.09	2.66 4.36	5.93 7.07	2.95 4.19	5.78 6.88	3.16 4.08	6.53 6.28	3.10 3.05	6.28 5.12	3.78 3.26	6.76 5.60	12
13	2.49 3.06	5.15 6.04	2.72 4.11	5.55 7.12	2.84 4.29	6.17 6.71	3.21 3.73	6.54 5.50	3.51 2.61	6.20 4.56	3.79 2.82	6.43 5.15	13
14	2.24 3.17	5.05 6.20	2.98 4.00	5.62 6.59	2.85 4.04	6.05 6.09	2.97 3.48	6.39 5.10	3.61 2.35	5.99	3.91 2.76	6.25 5.08	14
15	2.24 3.58	5.14 6.43	2.53 4.04	5.63 6.34	2.57 3.40	5.84 5.21	3.39 3.54	6.72	4.52 5.90	3.78 2.27	4.19 2.70	6.13	15
16	2.36 3.61	5.05 6.27	2.57 4.05	6.04 6.00	2.40 3.23	5.88 4.95	5.41 7.37	4.19 3.90	4.75 6.24	4.15 2.54	5.11 5.87	4.24 2.65	16
17	2.20 3.71	5.02 6.24	2.67 4.17	6.12 6.60	2.71 3.16	6.36	5.39 6.93	4.36 3.23	5.06 6.04	3.85 2.25	5.24 5.76	4.12 2.56	17
18	2.41 3.72	5.21	3.64 3.96	6.82 5.49	4.82 6.31	3.08 2.80	5.43 7.36	4.59 3.87	4.95 5.86	3.57 2.14	5.36 5.89	4.10 2.62	18
19	5.96 5.29	2.29 3.59	2.81 2.96	6.13	4.75 6.15	3.35 2.44	6.01 7.47	5.04 4.17	5.23 6.28	4.01 2.43	5.56 5.98	3.93 2.77	19
20	5.98 5.40	2.33 3.31	4.98 6.38	2.94 3.27	4.76 6.38	3.65 2.55	6.32 7.66	5.40 4.29	4.98 5.66	3.09 2.07	5.89 6.29	4.03 3.23	20
21	5.63 5.64	2.41 3.07	5.46 6.82	3.65 3.21	5.26 7.01	4.52 3.04	6.27 7.41	5.45	4.94 5.95	2.99	6.09 6.07	3.64 2.90	21
22	5.56 6.04	2.69 3.40	5.63 6.94	3.99 3.20	5.63 6.78	4.39 2.69	4.17 4.95	6.02 6.86	2.39 2.87	5.14 5.40	5.88 5.92	3.23 3.11	22
23	6.26 6.07	3.36 2.77	5.70 6.82	4.15	5.36 6.59	4.16	3.77 4.73	5.91 7.00	2.07 2.54	4.96 5.14	6.05 5.83	3.18 3.26	23
24	5.22 5.77	2.74	2.85 4.20	5.64 6.62	2.52 4.08	5.25 6.44	3.77 4.71	6.08 6.79	2.14 2.39	5.14 4.96	6.16 5.60	2.97 3.34	24
25	2.44 2.87	5.12 5.81	2.61 4.18	5.40 6.65	2.38 4.10	5.20 6.36	3.67 4.75	6.28 6.68	2.35 2.61	5.48 4.97	6.27 5.63	2.96	25
26	2.23 3.00	4.97 5.89	2.95 4.40	5.68 6.61	2.44 4.21	5.40 6.39	3.66 4.52	6.26 6.12	2.66 2.79	5.79 4.97	3.52 2.93	6.46 5.74	26
27	2.10 3.00	4.80 5.70	2.60 4.19	5.37 6.05	2.63 4.32	5.69 6.37	3.28 3.94	5.96 5.49	2.95 2.55	5.97 4.66	4.14 3.11	6.94 5.74	27
28	1.94 3.23	4.78 5.91	2.18 3.96	4.99 5.87	2.74 4.32	5.76 6.10	3.11 3.77	6.04 5.14	3.50 3.15	6.55 5.72	4.36 2.76	6.81 5.30	28
29	2.03 3.37	4.75 5.74	2.24 4.35	5.32 5.90	2.76 4.52	6.01 6.03	3.21 3.65	6.18 4.77			4.14 2.95	6.68 5.71	29
30	1.82 3.44	4.62 5.56	2.47 4.94	5.76 6.81	3.03 4.02	5.93 5.21	3.32 3.44	6.36 4.61			5.08 3.39	7.36 5.83	30
31	1.83 3.85	4.86 5.72			2.83 3.90	6.02 4.99	3.60 3.33	6.54			4.55 2.77	6.38	31
MAXIMUM	NR		7.12		7.52		7.88		7.05		7.36		MAXIMUM
MINIMUM	NR		1.83		2.35		2.97		2.07		2.55		MINIMUM

NR - NO RECORD

LOCATION: LAT. 38 00 07, LONG. 121 31 22, SW SEC. 22, T2N, R4E,  
AT NE CORNER OF BACON ISLAND AT JUNCTION OF MIDDLE  
RIVER AND CONNECTION SLOUGH.PERIOD OF RECORD: OCT 1948 TO SEPT 1966  
MAR 1968 TO DATE

TABLE B-12 (CONTINUED)

## DAILY TIDES

H95460 MIDDLE RIVER AT BACON ISLAND  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	5.75 6.63	4.37 3.45	5.79 5.52	3.14 2.69	6.84 5.54	2.88 3.74	6.85 5.43	2.49 4.09	6.46 5.30	2.39 3.71	6.21 5.78	2.85 3.37	01
02	6.63 6.86	4.70 4.00	5.97 5.31	2.79 2.81	6.93 5.63	2.77 3.84	6.85 5.45	2.44 4.17	6.54 5.62	2.56 3.93	6.11 6.03	3.04	02
03	6.92 6.83	4.71 4.15	6.14 5.39	2.69 3.16	6.88 5.69	2.61 4.18	6.86 5.59	2.53 4.17	6.68 5.75	2.93 3.82	3.45 3.19	6.01 6.11	03
04	6.94 6.72	4.50 4.19	6.50 5.66	2.83 3.47	6.96 5.84	2.62 4.13	6.76 5.39	2.39 3.88	6.50 5.76	2.87	3.29 3.22	5.85 6.10	04
05	7.26 7.17	4.64 4.85	6.74 5.70	2.76 3.79	6.64 5.64	2.40 4.31	6.57 5.58	2.41 4.00	3.62 2.88	6.29 5.74	3.13 3.15	5.57 6.14	05
06	7.64 6.65	4.59 4.49	6.81 5.64	2.69 3.85	6.71 5.68	2.41	6.54 5.58	2.49	3.48 2.60	5.76 5.69	3.02 3.32	5.41 6.20	06
07	7.21 6.39	4.00	6.75 5.59	2.55 4.00	6.34 5.73	6.65	3.82 2.40	6.23 5.58	3.29 2.83	5.56 5.88	2.91 3.90	5.37 6.56	07
08	4.46 3.97	7.27 6.87	6.74 5.71	2.62	4.37 2.28	6.42 5.84	3.58 2.24	5.76 5.60	3.22 2.74	5.25 5.99	2.98 4.21	5.25 6.70	08
09	4.96 4.01	7.44 6.32	4.34 2.63	6.73 5.71	4.34 2.46	6.31 5.85	3.53 2.24	5.59 5.67	3.25 3.35	5.28 6.52	2.84 4.24	5.27 6.66	09
10	4.61 3.25	6.76 5.62	4.37 2.26	6.39 5.43	4.29 2.54	5.97 6.00	3.43 2.44	5.31 5.84	3.31 3.66	5.13 6.68	2.72 4.26	5.37 6.68	10
11	4.41 3.08	6.49 5.52	4.31 2.14	6.00 5.47	4.26 2.77	5.73 6.17	3.11 2.34	4.69 5.88	3.05 4.10	5.10 6.94	2.70 3.92	5.49	11
12	4.48 3.02	6.24 5.46	4.33 2.38	5.79 5.55	4.07 2.82	5.27 6.25	2.77 2.68	4.41 5.99	2.99 4.48	5.42 7.07	6.71 6.02	2.91 4.31	12
13	4.53 2.79	5.90	3.99 2.13	4.95	3.71 3.12	5.03	2.48 3.11	4.39 6.30	2.86 4.22	5.47	7.11 6.14	3.29 4.11	13
14	5.43 5.58	4.43 2.71	5.45 4.75	3.65 2.42	6.34 4.80	3.15 3.26	2.40 3.61	4.62	6.88 5.27	2.49 3.88	6.89 6.11	3.13 3.59	14
15	5.59 5.52	4.34 2.86	5.80 4.77	3.51 2.62	6.33 4.86	2.71 3.54	6.64 5.02	2.42 3.99	6.87 5.49	2.54 3.75	6.54 6.20	3.11 3.37	15
16	5.65 5.34	4.00 2.82	5.85 4.57	3.12 2.90	6.56 5.06	2.52 3.73	6.82 5.15	2.34 4.02	6.79 5.55	2.54 3.43	6.37 6.32	3.23	16
17	5.78 5.88	3.98 3.55	6.09 4.83	2.79 2.99	6.87 5.43	2.59 4.22	7.00 5.34	2.36 3.91	6.56 5.54	2.49 3.14	3.12 3.12	6.07 6.36	17
18	6.23 5.66	3.62 3.07	5.99 4.75	2.38 3.06	7.24 5.72	2.73 4.34	7.00 5.36	2.36 3.67	6.28 5.74	2.50	3.12 3.36	6.02 6.59	18
19	5.96 5.41	3.12 3.22	6.15 4.91	2.22 3.15	7.29 5.59	2.49 4.19	6.91 5.45	2.39 3.47	3.08 2.43	6.09 5.69	3.23 3.60	5.93 6.70	19
20	6.15 5.52	3.03 3.32	6.24 4.92	2.04 3.29	7.16 5.57	2.38 3.98	6.79 5.64	2.48 3.36	2.77 2.40	5.63 5.87	3.10 3.73	5.69 6.64	20
21	6.24 5.51	2.75 3.55	6.39 5.07	2.00 3.60	7.11 5.75	2.43 3.99	6.55 5.79	2.44	2.75 2.56	5.46 6.06	2.93 3.89	5.53 6.55	21
22	6.53 5.84	2.87 4.04	6.66 5.30	2.20 3.89	6.99 5.86	2.60	3.30 2.45	6.28 5.95	2.74 2.80	5.29 6.16	3.00 4.20	5.57 6.45	22
23	6.88 5.78	2.89 4.02	6.82 5.42	2.31	3.80 2.44	6.60 5.77	3.22 2.52	5.93 6.08	2.67 3.07	5.04 6.29	2.93 4.33	5.57 6.39	23
24	6.83 5.66	2.65	3.95 2.12	6.76 5.28	3.42 2.24	6.04 5.77	3.05 2.57	5.55 6.18	2.69 3.62	5.14 6.60	2.90 4.31	5.70	24
25	4.07 2.43	6.69 5.51	3.62 1.91	6.38 5.26	3.15 2.08	5.52 5.75	2.80 2.78	5.13 6.37	2.91 4.13	5.43 6.65	6.29 5.89	3.64 4.30	25
26	4.12 2.30	6.57 5.21	3.52 1.93	6.12 5.53	2.86 2.13	4.97 5.88	2.88 3.53	5.22 6.73	2.82 3.99	5.35	6.22 5.68	2.82 3.75	26
27	3.98 2.07	6.12 5.21	3.63 2.39	6.03 5.99	2.54 2.39	4.65	2.95 3.71	5.22	6.47 5.54	2.71 4.14	6.17 5.72	2.85 3.64	27
28	3.93 2.10	5.98	3.63 2.65	5.75	6.03 4.61	2.30 2.88	6.69 5.18	2.69 3.97	6.45 5.45	2.56 3.86	6.04 5.86	2.97 3.44	28
29	5.32 5.58	3.70 1.99	6.25 5.19	3.19 2.43	6.28 4.91	2.28 3.56	6.67 5.26	2.64 4.00	6.32 5.48	2.53 3.73	5.91 5.73	2.93 2.94	29
30	5.43 5.48	3.44 2.38	6.13 5.19	2.84 2.96	6.75 5.41	2.67 4.00	6.59 5.31	2.46 3.98	6.26 5.51	2.58 3.58	5.55 5.66	2.77 2.73	30
31			6.49 5.42	2.80 3.53			6.59 5.23	2.42 3.79	6.18 5.62	2.64 3.49			31
MAXIMUM	7.64		6.82		7.29		7.00		7.07		7.11		MAXIMUM
MINIMUM	1.99		1.91		2.08		2.24		2.39		2.70		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 10.2 - 12/26/55

ZERO OF GAGE: 1948 -2.94 USCGS  
1964 -3.65 USCGS  
1964 TO DATE -3.00 USCGS

TABLE B-12 (CONTINUED)

## DAILY TIDES

895380 OLD RIVER NEAR TRACY ROAD BRIDGE  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	2.41 3.45	4.47 5.35	2.21 3.96	4.97 5.10	3.47 4.35	5.93 5.49	3.49 4.26	6.40	5.39 6.36	4.21 3.49	5.29 6.72	4.10 2.85	01
02	2.28 3.44	4.42 5.10	1.95 3.61	4.58	2.59 3.50	5.14	4.62 6.50	3.27 3.42	5.30 6.24	4.23	4.28 5.91	4.05 2.92	02
03	1.94 3.65	4.24	4.82 4.24	1.93 3.10	4.29 5.04	2.37 3.18	4.88 6.14	3.57	3.19 4.31	5.52 6.36	5.07 6.86	4.40	03
04	4.93 4.33	1.84 3.66	4.24 3.95	1.65 2.58	4.63 5.36	2.67 3.06	3.54 4.22	5.31 6.93	3.20 4.23	5.55 6.70	2.94 3.87	5.46 6.31	04
05	4.79 4.48	1.96 3.57	3.74 4.53	1.67 2.60	4.83 5.60	3.04	3.83 4.95	6.21 8.14	3.48 4.38	6.08 6.82	2.65 3.60	5.56 6.29	05
06	4.87 4.53	2.29 3.59	4.75 5.37	2.27	2.85 3.20	4.79 5.71	4.08 4.96	6.40 8.21	3.47 3.92	5.79 6.92	2.88 3.74	5.84 6.29	06
07	4.85 4.12	2.42 3.02	2.35 2.42	4.66 5.17	2.66 3.38	4.73 5.99	4.15 5.01	6.57 8.21	3.28 3.75	6.03 6.77	3.31 4.00	6.38 6.40	07
08	4.23 4.69	2.30	2.27 2.51	3.67 4.99	2.76 3.60	4.95 6.12	4.15 5.09	6.34 8.27	3.23 3.48	6.05 5.68	3.64 4.05	6.61 6.23	08
09	2.77 2.47	4.51 4.77	2.21 2.90	4.78 5.49	2.75 3.68	5.33 5.91	4.19 4.96	6.85 8.00	2.98 3.29	5.36 6.00	3.25 3.18	5.13 6.05	09
10	2.63 2.48	4.33 4.89	2.29 3.08	4.54 5.48	2.60 3.69	4.84 6.25	4.13 4.65	6.76 7.50	3.04 3.22	5.46 5.69	3.27 3.31	6.21 5.99	10
11	2.45 2.67	4.34 5.08	2.29 3.59	5.14 5.77	2.70 4.65	5.41 7.08	3.89 4.37	6.61 7.06	3.12 3.20	5.61 5.41	3.48 3.30	6.65 5.87	11
12	2.49 2.87	4.46 5.23	2.65 4.15	5.23 6.44	3.21 4.15	6.03 6.62	3.87 4.51	7.00 6.77	3.12 3.11	5.66	3.77 3.15	6.85 5.66	12
13	2.30 2.75	4.20 5.08	2.72 3.85	5.52 6.45	3.17 4.27	6.38 6.96	3.84 4.19	7.01 5.97	5.28 5.67	3.44 2.74	3.70 2.86	6.54	13
14	2.11 2.90	4.03 4.82	2.95 3.78	5.61 6.00	3.15 4.03	5.71 6.36	3.51 3.84	6.23	4.76 5.53	3.50 2.50	5.21 6.37	3.75 2.76	14
15	2.08 3.39	4.33 5.64	2.49 3.77	5.21 5.82	2.85 3.41	5.33 5.48	5.57 6.54	3.67 3.80	4.57 5.46	3.67 2.42	5.13 6.25	3.99 2.56	15
16	2.26 3.35	5.04 6.24	2.42 3.74	5.33	2.59 3.30	5.40	5.78 7.68	4.26 4.14	4.91 5.64	3.88	4.24 5.62	4.06 2.57	16
17	2.11 3.42	4.53 5.93	5.63 5.29	2.57 3.86	5.22 5.89	2.79 3.30	5.79 6.80	4.42	2.72 3.74	4.70 5.44	4.48 5.74	3.94 2.51	17
18	2.27 3.45	5.21	5.94 6.81	3.46 3.79	5.14 5.99	3.13 2.95	3.58 4.56	5.83 7.72	2.43 3.39	4.34 5.32	5.32 5.96	3.86	18
19	5.38 5.27	2.16 3.38	4.94 5.52	2.73	5.00 5.80	3.30	4.15 5.07	6.17 7.87	2.26 3.89	4.72 5.74	2.63 3.69	5.47 5.77	19
20	5.30 5.40	2.24 3.13	2.80 2.70	4.96 5.86	2.67 3.56	4.99 5.91	4.46 5.48	6.27 8.08	2.51 3.01	4.60 5.26	2.69 3.82	5.81 5.86	20
21	4.84 4.81	2.29 2.90	3.18 3.49	5.56 6.30	2.80 4.36	5.47 6.40	4.63 5.67	6.79 7.62	2.13 2.83	4.38 5.32	3.15 3.48	6.00 5.30	21
22	4.82 5.27	2.56 3.21	3.19 3.78	5.70 6.48	3.23 4.29	5.86 6.30	4.50 5.10	6.52 7.30	2.41 2.84	4.54 5.04	2.84 3.09	4.95 5.25	22
23	5.57 5.58	3.18	3.22 3.97	5.80 6.51	2.97 4.10	5.62 6.13	4.16 4.93	6.00 7.47	2.14 2.50	4.08 4.52	3.04 3.10	5.94 5.77	23
24	2.67 2.60	5.16 5.08	2.89 4.12	5.75 6.23	2.84 4.01	5.50 6.02	4.26 4.90	6.60 7.24	2.14 2.34	4.10 4.79	3.19 2.91	5.26 5.53	24
25	2.33 2.72	4.46 5.09	2.71 3.89	5.49 5.81	2.67 4.02	5.44 5.99	4.13 5.00	6.76 7.16	2.30 2.26	5.46 4.49	3.19 2.95	5.53 5.60	25
26	2.18 2.86	4.36 5.13	2.93 4.20	5.76 6.06	2.72 4.10	5.63 5.91	4.15 5.04	6.18 6.65	2.54 2.49	5.76 4.55	3.39 2.90	6.13 5.72	26
27	2.07 2.79	4.42 5.02	2.66 3.91	5.06 5.64	2.83 4.25	5.51 6.24	3.85 4.32	6.21 5.98	2.77 2.16	5.95	3.92 3.18	6.35 5.65	27
28	1.92 3.05	3.91 4.83	2.24 3.69	4.75 5.54	3.05 4.32	6.05 6.07	3.64 4.15	6.08 5.62	4.37 6.32	3.25 2.64	4.12 3.00	6.04	28
29	2.10 3.32	4.15 5.08	2.34 4.13	5.48 5.60	3.15 4.60	5.91 6.10	3.64 3.99	6.17 5.22			5.47 6.24	4.04 3.18	29
30	1.80 3.19	4.19 4.97	2.51 4.73	5.40 6.41	3.45 4.20	5.93 5.29	3.67 3.87	6.32			5.83 6.86	4.88 3.66	30
31	1.75 3.66	4.26 5.21			3.15 4.04	5.77 5.45	5.09 6.95	3.91 3.75			6.06 5.90	4.49 3.09	31
MAXIMUM	6.24		6.81		7.08		8.27		6.92		6.86		MAXIMUM
MINIMUM	1.75		1.65		2.37		3.27		2.13		2.51		MINIMUM

LOCATION: LAT. 37 48 18, LONG. 121 26 55, SE SEC. 32, T1S, R5E  
EIGHTY FEET ABOVE TRACY ROAD BRIDGE, 3.5 MILES NORTHWEST  
OF TRACY.PERIOD OF RECORD: JUN 1951 TO DEC 1954  
FEB 1955 TO DATE

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895380 OLD RIVER NEAR TRACY ROAD BRIDGE  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	5.08 6.21	4.23 3.71	5.19 5.54	3.13 2.70	5.53 4.68	2.91 3.62	5.38 4.22	2.23 3.67	4.96 4.05	2.09	3.21 2.66	5.04 4.69	01
02	6.28 6.72	4.75	5.18 5.38	2.84 2.89	5.70 4.57	2.85	5.38 4.61	2.19	3.41 2.24	4.97 4.36	3.12 2.84	5.22 5.40	02
03	4.19 4.87	6.87 7.21	5.27 5.44	2.73	3.77 2.76	5.66 5.75	3.73 2.30	5.37 4.70	3.62 2.57	5.16 4.48	3.24 3.01	5.92 5.30	03
04	4.42 4.74	7.30 7.09	3.10 2.89	5.88 5.16	4.05 2.77	5.68 5.28	3.71 2.14	5.29 4.32	3.51 2.54	5.04 4.33	3.12 3.07	5.63 6.05	04
05	4.46 4.84	6.95 7.51	3.37 2.91	6.65 5.72	3.96 2.59	5.63 5.57	3.37 2.13	5.02 4.56	3.32 2.54	4.82 4.57	2.99 2.97	5.56 6.12	05
06	5.04 4.93	7.20 7.10	3.68 2.67	6.80 4.87	4.14 2.63	5.93 5.42	3.53 2.22	5.03 4.47	3.08 2.28	4.51 4.44	2.89 2.97	5.41 5.26	06
07	4.71 4.41	6.95 6.83	3.66 2.63	5.77 5.31	4.15 2.87	5.82 5.84	3.38 2.13	4.72 4.54	2.91 2.41	4.28 4.51	2.71 3.66	5.43 6.34	07
08	4.68 4.49	6.94 7.23	3.72 2.61	5.86 5.63	4.04 2.41	5.40 4.95	2.99 1.91	4.26 4.57	2.84 2.33	4.07 4.51	2.86 3.94	5.41 6.72	08
09	5.11 4.46	7.42 6.74	4.07 2.67	5.88 5.56	4.15 2.57	5.39	3.04 2.00	4.21	2.85 2.97	4.07	2.74 3.98	5.43	09
10	4.74 3.74	7.16 5.99	4.12 2.40	5.68	4.73 5.99	4.08 2.67	4.13 4.08	3.12 2.14	5.03 4.01	2.92 3.40	6.44 5.40	2.62 3.91	10
11	4.49 3.51	6.88	5.41 5.25	4.04 2.25	5.04 5.31	4.14 2.87	4.19 3.54	2.79 2.08	5.38 3.92	2.68 3.62	6.55 4.60	2.67 4.06	11
12	5.87 6.73	4.50 3.41	4.79 5.03	4.16 2.38	5.55 5.03	3.91 2.81	4.16 3.54	2.42 2.36	5.39 4.35	2.66 4.17	5.71 5.93	2.86 4.07	12
13	5.40 5.78	4.56 3.05	4.58 4.45	3.89 2.12	5.48 4.70	3.56 3.00	4.37 3.23	2.12 2.75	5.64 4.32	2.55 3.87	6.40 6.25	3.26 3.92	13
14	5.67 5.91	4.39 2.99	4.39 4.42	3.49 2.28	5.62 4.31	3.03 3.05	4.62 3.46	2.10 3.10	5.40 4.53	2.19 3.34	6.22 6.15	3.07	14
15	5.36 5.84	4.34 3.08	4.70 4.84	3.33 2.52	5.16 4.03	2.58 3.33	5.14 3.74	2.16 3.41	5.20 4.66	2.25	3.42 3.02	5.70 6.22	15
16	5.43 5.51	4.02 2.97	5.81 4.62	3.06 2.75	5.54 3.91	2.44 3.52	5.31 4.21	2.10 3.64	3.30 2.28	5.12 4.62	3.23 3.13	6.34 5.46	16
17	5.43 6.15	4.00 3.68	6.07 4.88	2.82 2.92	5.47 4.79	2.54 4.03	5.57 4.16	2.12 3.65	3.11 2.25	4.90 4.20	2.94 2.79	5.15 6.23	17
18	5.70 5.91	3.66	5.99 3.93	2.52 2.85	6.02 5.69	2.73	5.41 4.05	2.13	2.85 2.26	4.63 4.14	2.91 3.09	5.21 6.48	18
19	3.27 3.29	5.46 5.33	4.94 3.47	2.35 3.14	3.96 2.55	5.82 5.07	3.31 2.12	5.25 4.22	2.79 2.22	4.51 4.29	3.01 3.33	5.28 6.64	19
20	3.31 3.32	5.59 5.20	5.46 3.77	2.21	3.93 2.44	6.32 5.48	3.14 2.23	5.14 4.12	2.49 2.14	4.18 4.48	2.92 3.45	5.19 6.62	20
21	3.38 3.02	5.69 4.99	3.22 2.14	4.95 5.03	3.72 2.39	5.60 4.80	3.04 2.25	4.84 4.20	2.46 2.23	4.14 4.62	2.78 3.65	4.92 6.62	21
22	3.56 3.07	5.83 6.01	3.45 2.35	6.62 5.22	3.74 2.51	5.58 4.74	2.98 2.15	4.68 4.30	2.45 2.47	4.09 4.73	2.88 4.01	4.66	22
23	3.97 3.13	7.02 5.71	3.65 2.40	6.74 5.32	3.56 2.35	5.19 4.33	2.83 2.15	4.35	2.36 2.68	3.99	5.74 5.28	2.77 4.03	23
24	3.89 2.90	6.22 5.77	3.67 2.17	6.64	3.10 2.11	4.71	4.31 4.08	2.64 2.16	4.88 3.91	2.38 3.35	6.48 5.28	2.77 4.04	24
25	3.90 2.63	6.08 5.58	3.76 5.44	3.25 1.83	4.45 4.34	2.87 1.94	4.34 3.71	2.39 2.43	5.19 4.40	2.62 3.89	6.36 5.36	2.93 4.06	25
26	3.93 2.48	6.26	3.98 4.97	3.27 1.85	4.38 3.83	2.54 1.92	4.52 3.95	2.46 3.24	5.44 4.75	2.52 3.68	6.24 5.19	2.69 3.54	26
27	5.28 5.35	3.74 2.21	4.38 5.17	3.33 2.19	4.21 3.49	2.25 2.09	5.09 3.98	2.57 3.34	5.40 4.95	2.45 3.82	5.73 5.70	2.72	27
28	4.75 5.40	3.72 2.27	5.41 5.01	3.34 2.48	4.30 3.50	2.01 2.56	5.08 3.94	2.34 3.60	5.58 5.23	2.33 3.53	3.42 2.81	5.53 5.85	28
29	4.65 5.09	3.53 2.14	5.18 4.58	2.97 2.32	4.59 3.62	1.96 3.18	5.19 4.11	2.28 3.65	5.43 5.24	2.30	3.22 2.76	5.82 5.64	29
30	4.90 5.51	3.30 2.48	5.03 5.16	2.71 2.86	5.15 4.10	2.45 3.59	5.18 4.11	2.10 3.69	3.40 2.38	5.33 5.34	2.78 2.63	5.46 5.04	30
31			5.03 4.96	2.76 3.44			5.19 4.01	2.11 3.44	3.30 2.44	5.17 4.93			31
MAXIMUM	7.51		6.80		6.32		5.57		5.64		6.72		MAXIMUM
MINIMUM	2.14		1.83		1.92		1.91		2.09		2.62		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 13.2 - 12/29/55

ZERO OF GAGE: 1958 -4.44  
1964 -4.47  
1964 TO DATE -3.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895420 TOM PAINE SLOUGH ABOVE MOUTH  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	2.59 3.58	4.54 5.42	2.30 4.03	5.03 5.15	3.65 4.46	5.98 5.53	3.77 4.45	6.46	5.58 6.49	4.54 3.93	5.23 6.75	4.23 3.13	01
02	2.48 3.54	4.49 5.16	2.07 3.68	4.64 4.86	2.80 3.65	5.20 4.37	4.69 6.55	3.53 3.68	5.42 6.34	4.56	4.39 5.95	4.17 3.20	02
03	2.12 3.72	4.28 4.98	2.06 3.18	4.31	2.58 3.35	5.10	4.94 6.19	3.78	3.65 4.61	5.61 6.45	5.10 6.90	4.55 3.29	03
04	2.05 3.73	4.37	4.31 4.01	1.78 2.66	4.66 5.41	2.87 3.25	3.81 4.42	5.36 6.99	3.64 4.52	5.60 6.79	5.51 6.33	4.11	04
05	4.85 4.53	2.16 3.63	3.80 4.58	1.78 2.69	4.86 5.66	3.20	4.12 5.15	6.28 8.20	3.88 4.65	6.13 6.90	3.06 3.88	5.59 6.33	05
06	4.95 4.60	2.43 3.67	4.80 5.42	2.37	3.06 3.36	4.82 5.77	4.38 5.17	6.47 8.27	3.84 4.23	5.84 6.98	3.23 4.00	5.86 6.33	06
07	4.91 4.20	2.51 3.09	2.45 2.50	4.72 5.26	2.89 3.53	4.76 6.05	4.46 5.22	6.63 8.27	3.66 4.07	6.09 6.83	3.63 4.26	6.41 6.44	07
08	4.32 4.75	2.41 2.87	2.36 2.57	3.76 5.05	2.99 3.75	4.98 6.17	4.46 5.29	6.42 8.33	3.60 3.81	6.11 5.76	3.97 4.34	6.65 6.28	08
09	4.58 4.83	2.57	2.29 2.96	4.83 5.56	2.99 3.82	5.37 5.96	4.53 5.23	6.93 8.06	3.35 3.61	5.42 6.67	3.64 3.56	5.19 6.09	09
10	2.74 2.57	4.38 4.94	2.39 3.13	4.59 5.54	2.84 3.81	4.88 6.30	4.49 4.94	6.83 7.57	3.38 3.54	5.54 5.74	3.64 3.67	6.24 6.04	10
11	2.55 2.76	4.41 5.13	2.36 3.62	5.21 5.81	2.93 4.71	5.49 7.14	4.27 4.69	6.68 7.12	3.43 3.50	5.67 5.46	3.81 3.64	6.67 5.89	11
12	2.59 2.95	4.53 5.27	2.73 4.17	5.32 6.50	3.41 4.28	6.07 6.66	4.25 4.83	7.07 6.84	3.41 3.37	5.71	4.04 3.52	6.88 5.71	12
13	2.45 2.87	4.24 5.13	2.80 3.88	5.56 6.52	3.37 4.39	6.41 7.00	4.21 4.52	7.07 6.05	5.33 5.72	3.68 3.88	3.97 3.23	6.60	13
14	2.26 2.99	4.08 4.88	3.01 3.82	5.65 6.06	3.36 4.16	5.77 6.39	3.88 4.15	6.31	4.81 5.68	3.73 2.88	5.27 6.40	3.99 3.11	14
15	2.22 3.49	4.34 5.68	2.58 3.82	5.30 5.85	3.06 3.57	5.38 5.51	5.63 6.61	3.96 4.09	4.62 5.54	3.88 2.81	5.18 6.28	4.19 2.91	15
16	2.41 3.43	5.07 6.26	2.53 3.83	5.36	2.80 3.46	5.45	5.83 7.73	4.50 4.43	4.97 5.72	4.04	4.33 5.64	4.15 2.89	16
17	2.23 3.49	4.58 5.88	5.68 5.34	2.72 3.92	5.24 5.90	3.00 3.49	5.84 6.87	4.64	3.04 3.96	4.81 5.50	4.56 5.77	4.07 2.82	17
18	2.39 3.53	5.24	5.99 6.86	3.56 3.91	5.19 6.01	3.33 3.18	3.92 4.77	5.86 7.78	2.77 3.60	4.44 5.36	5.36 5.97	4.01 2.91	18
19	5.41 5.30	2.28 3.50	4.99 5.58	2.86 2.94	5.04 5.84	3.47	4.44 5.26	6.24 7.93	2.59 4.04	4.76 5.81	5.51 5.79	3.86	19
20	5.35 5.42	2.36 3.23	5.00 5.87	2.83	2.93 3.71	5.03 5.97	4.75 5.68	6.39 8.15	2.82 3.22	4.67 5.31	2.98 4.00	5.82 5.84	20
21	4.89 4.84	2.42 2.99	3.32 3.61	5.58 6.32	3.05 4.46	5.51 6.44	4.94 5.89	6.86 7.71	2.45 3.06	4.44 5.36	3.39 3.70	6.03 5.34	21
22	4.87 5.30	2.68 3.30	3.36 3.92	5.73 6.54	3.45 4.43	5.87 6.35	4.80 5.31	6.60 7.37	2.73 3.10	4.60 5.10	3.11 3.29	5.00 5.31	22
23	5.59 5.61	3.29	3.42 4.10	5.84 6.54	3.22 4.25	5.66 6.20	4.50 5.19	6.12 7.54	2.48 2.77	4.18 4.57	3.28 3.32	5.98 5.79	23
24	2.77 2.69	5.20 5.11	3.11 4.26	5.81 6.29	3.09 4.16	5.55 6.07	4.62 5.18	6.68 7.31	2.47 2.62	4.18 4.79	3.40 3.15	5.32 5.55	24
25	2.44 2.83	4.52 5.13	2.94 4.01	5.52 5.85	2.95 4.17	5.48 6.03	4.50 5.29	6.84 7.24	2.62 2.59	5.50 4.57	3.40 3.20	5.58 5.63	25
26	2.30 2.96	4.42 5.16	3.13 4.29	5.79 6.11	2.99 4.25	5.67 5.94	4.56 5.35	6.32 6.75	2.81 2.81	5.81 4.57	3.61 3.16	6.14 5.75	26
27	2.18 2.88	4.46 5.06	2.88 4.02	5.10 5.69	3.08 4.38	5.56 6.27	4.28 4.70	6.26 6.10	3.02 2.50	6.01	4.11 3.48	6.37 5.70	27
28	2.03 3.13	3.98 4.88	2.58 3.82	4.79 5.59	3.30 4.48	6.09 6.16	4.11 4.54	6.21 5.74	4.43 6.31	3.43 2.95	4.33 3.33	6.27	28
29	2.22 3.39	4.22 5.12	2.59 4.24	5.51 5.65	3.44 4.78	5.96 6.20	4.07 4.37	6.30 5.35			5.52 6.30	4.28 3.52	29
30	1.92 3.24	4.24 5.02	2.74 4.78	5.47 6.44	3.78 4.42	6.02 5.39	4.07 4.29	6.45			5.86 6.91	5.05 3.97	30
31	1.88 3.73	4.34 5.26			3.46 4.27	5.82 5.51	5.24 7.03	4.31 4.19			6.12 5.98	4.70 3.46	31
MAXIMUM	6.26		6.86		7.14		8.33		6.98		6.91		MAXIMUM
MINIMUM	1.88		1.78		2.58		3.53		2.45		2.82		MINIMUM

LOCATION: LAT. 37 47 27, LONG. 121 25 03, NE SEC. 4, T2S, R5E,  
0.1 MILE EAST OF MOUTH OF SUGAR CUT, 2.2 MILES ABOVE  
MOUTH, 2.6 MILES NORTH OF TRACY. STATION WAS DISCONTINUED  
9/30/66 AND REACTIVATED 2/26/68.PERIOD OF RECORD: JUNE 51 TO OCT 53 (IRRIGATION  
SEASON ONLY)  
APR 54 TO SEPT 66  
MAR 68 TO DATE



TABLE 8-12 (CONTINUED)

## DAILY TIDES

895420 TOM PAINE SLOUGH ABOVE MOUTH  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	5.19 6.28	4.45 4.03	5.26 5.62	3.37 3.00	5.61 4.75	3.23 3.88	5.43 4.29	2.42 3.80	3.52 2.25	5.00 4.11	3.37 2.86	5.09 4.74	01
02	6.36 6.78	4.99 4.50	5.22 5.42	3.12 3.16	5.77 4.66	3.19	5.42 4.67	2.40	3.51 2.41	5.01 4.41	3.28 3.02	5.27 5.43	02
03	6.93 7.28	5.14	5.29 5.47	3.05 3.38	3.99 3.12	5.69 5.78	3.80 2.48	5.41 4.73	3.70 2.74	5.20 4.54	3.43 3.16	5.95 5.32	03
04	4.74 5.03	7.35 7.14	5.88 5.20	3.19	4.28 3.15	5.76 5.37	3.79 2.34	5.33 4.36	3.60 2.72	5.09 4.39	3.29 3.23	5.84 6.07	04
05	4.77 5.13	7.02 7.57	3.62 3.20	6.67 5.75	4.20 2.96	5.70 5.62	3.49 2.33	5.05 4.61	3.42 2.70	4.88 4.62	3.18 3.12	5.58 6.14	05
06	5.32 5.21	7.28 7.16	3.92 3.01	6.83 4.93	4.37 3.00	5.98 5.43	3.64 2.41	5.10 4.50	3.22 2.44	4.56 4.48	3.07 3.10	5.42 5.32	06
07	5.02 4.74	7.02 6.89	3.87 2.94	5.81 5.37	4.37 3.26	5.87 5.88	3.45 2.32	4.79 4.57	3.06 2.58	4.33 4.56	2.89 3.77	5.45 6.29	07
08	4.98 4.80	7.01 7.25	3.93 2.91	5.90 5.65	4.24 2.80	5.47	3.11 2.11	4.31 4.61	2.99 2.50	4.12 4.56	3.43 4.06	5.43 6.74	08
09	5.36 4.74	7.47 6.80	4.27 2.95	5.96 5.60	5.02 5.44	4.33 2.92	3.18 2.17	4.26	2.99 3.09	4.14	2.95 4.08	5.45	09
10	5.00 4.08	7.21 6.67	4.32 2.77	5.74	4.88 6.02	4.25 3.84	3.21 4.16	2.35	5.07 4.08	3.07 3.51	6.45 5.42	2.82 4.02	10
11	4.74 3.86	6.91	5.45 5.32	4.24 2.66	5.12 5.38	4.37 3.24	3.25 4.61	2.96 2.28	5.40 4.00	2.85 3.70	6.56 4.65	2.88 3.65	11
12	5.94 6.77	4.74 3.75	4.91 5.11	4.36 2.80	5.60 5.09	4.17 3.15	0.00 0.00	0.00 0.00	5.44 4.42	2.84 4.22	5.75 5.77	3.04 4.20	12
13	5.50 5.85	4.77 3.41	4.67 4.56	4.09 2.53	5.52 4.76	3.80 3.27	4.41 3.30	2.32 2.89	5.71 4.41	2.72 3.96	6.45 6.28	3.42 4.06	13
14	5.72 5.97	4.62 3.37	4.48 4.50	3.75 2.69	5.68 4.40	3.30 3.31	4.67 3.52	2.31 3.20	5.44 4.57	2.39 3.45	6.28 6.17	3.23	14
15	5.45 5.90	4.58 3.45	4.78 4.07	3.58 2.91	5.23 4.13	2.85 3.52	5.18 3.82	2.37 3.54	5.25 4.69	2.44	3.55 3.17	5.74 6.25	15
16	5.49 5.53	4.26 3.33	5.84 4.67	3.42 3.12	5.57 4.00	2.73 3.68	5.38 4.26	2.30 3.73	3.42 2.47	5.16 4.68	3.37 3.27	6.37 5.50	16
17	5.50 6.23	4.24 3.95	6.09 4.94	3.19 3.28	5.53 4.84	2.88 4.22	5.61 4.23	2.31 3.73	3.26 2.43	4.96 4.27	3.09 2.90	5.19 6.25	17
18	5.77 5.95	3.93	6.04 4.04	2.93 3.19	6.08 5.72	3.07	5.45 4.11	2.32	2.99 2.44	4.69 4.25	3.02 3.22	5.25 6.50	18
19	3.55 3.58	5.49 5.43	5.02 3.63	2.76 3.40	4.12 2.87	5.87 5.12	3.43 2.31	5.28 4.26	2.96 2.40	4.57 4.35	3.14 3.45	5.32 6.68	19
20	3.60 3.63	5.63 5.22	5.51 3.90	2.66	4.11 2.76	6.32 5.50	3.27 2.39	5.18 4.19	2.66 2.31	4.26 4.53	3.06 3.56	5.21 6.65	20
21	3.66 3.34	5.72 5.04	3.51 2.58	5.02 5.09	3.90 2.66	5.66 4.82	3.17 2.41	4.88 4.25	2.65 2.42	4.21 4.68	2.92 3.78	4.98 6.65	21
22	3.81 3.39	5.86 6.01	3.71 2.71	6.64 5.25	3.91 2.77	5.64 4.80	3.11 2.33	4.72 4.35	2.65 2.63	4.16	3.06 4.12	5.03	22
23	4.18 3.44	7.05 5.72	3.86 2.70	6.76 5.35	3.74 2.59	5.25 4.41	2.98 2.32	4.39	4.79 4.06	2.55 2.84	5.79 5.32	2.96 4.16	23
24	4.09 3.18	6.25 5.80	3.85 2.48	6.65	3.26 2.34	4.75	4.35 4.12	2.80 2.31	4.96 3.98	2.58 3.48	6.51 5.31	2.95 4.16	24
25	4.06 2.88	6.13 5.59	3.83 5.49	3.39 2.15	4.51 4.40	3.88 2.17	4.38 3.78	2.56 2.57	5.26 4.47	2.80 3.99	6.39 5.42	3.12 4.19	25
26	4.08 2.71	6.28	4.06 5.02	3.42 2.13	4.44 3.90	2.74 2.13	4.56 4.00	2.62 3.36	5.50 4.78	2.72 3.80	6.27 5.25	2.88 3.68	26
27	5.31 5.41	3.89 2.49	4.44 5.21	3.49 2.50	4.26 3.57	2.46 2.29	5.14 4.05	2.77 3.45	5.45 5.01	2.65 3.95	5.76 5.74	2.92 3.57	27
28	4.84 5.45	3.87 2.56	5.43 5.03	3.51 2.75	4.35 3.57	2.23 2.72	5.11 3.99	2.50 3.72	5.63 5.25	2.55 3.69	5.57 5.87	3.00	28
29	4.69 5.09	3.72 2.48	5.22 4.62	3.19 2.60	4.64 3.69	2.17 3.26	5.22 4.17	2.45 3.73	5.48 5.26	2.50	3.40 2.94	5.84 5.68	29
30	4.96 5.53	3.50 2.77	5.09 5.22	2.98 3.12	5.18 4.21	2.63 3.68	5.21 4.16	2.28 3.76	3.55 2.58	5.40 5.37	2.96 2.82	5.51 5.09	30
31			5.11 4.99	3.07 3.68			3.77 2.29	5.22 4.08	3.43 2.65	5.22 4.98			31
MAXIMUM	7.57		6.83		6.32		5.61		5.71		6.74		MAXIMUM
MINIMUM	2.48		2.13		2.13		0.00		2.25		2.82		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 14.6 - 12/29/55

ZERO OF GAGE: 1955 -4.22 USCGS  
1964 -4.43 USCGS  
1964 TO DATE -3.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895340 OLD RIVER AT CLIFTON COURT FERRY  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	2.48 3.60	4.24 5.07	2.40 4.18	4.54 4.82	3.69 4.55	5.62 5.08	3.51 4.28	5.93	4.57 5.72	4.15 3.68	4.92 6.34	4.35 3.05	01
02	2.31 3.63	4.22 4.85	2.20 3.80	4.26	2.71 3.67	4.80	4.35 5.61	3.24 3.52	4.53 5.58	4.23	3.24A 5.56A		02
03	2.05 3.83	4.13 4.74	4.54 3.94	2.20 3.31	4.10 4.68	2.50 3.37	NR	NR	3.44 4.35	4.64 5.70	4.75 6.26	4.53 3.28	03
04	1.97 3.84	4.19	4.02 3.72	1.88 2.82	4.13 5.00	2.83 3.27	4.79 6.58	4.31	3.57 4.35	4.69 6.07	4.89 5.63	4.02	04
05	4.62 4.30	2.07 3.75	3.51 4.02	1.93 2.87	4.31 5.14	3.22 3.10	4.01 5.08	5.53 7.87	3.92 4.49	5.04 6.27	2.92 3.83	4.95 5.64	05
06	4.65 4.29	2.44 3.79	4.32 4.80	2.56 2.59	4.28 5.27	3.41	4.29 5.08	5.70 7.91	3.89 4.13	4.86 6.00	3.09 4.01	5.22 5.86	06
07	4.60 3.91	2.65 3.23	4.17 4.80	2.66	2.93 3.61	4.29 5.53	4.35 5.14	5.84 7.89	3.71 4.10	5.01 5.80	3.64 4.28	5.75 5.97	07
08	3.95 4.36	2.50 2.99	2.43 2.69	3.43 4.64	3.05 3.84	4.46 5.64	4.37 5.23	5.89 7.96	3.74 3.89	5.02 5.05	4.05 4.26	5.99 5.73	08
09	4.20 4.46	2.65	2.40 3.12	4.31 5.15	3.04 3.92	4.54 5.44	4.42 5.10	6.15 7.68	3.39 3.61	4.71 5.01	3.39 3.30	4.70 5.42	09
10	2.86 2.68	4.13 4.57	2.50 3.30	4.23 5.13	2.86 3.93	4.43 5.79	4.29 4.78	6.00 6.98	3.44 3.59	4.82 4.76	3.56 3.45	5.46 5.34	10
11	2.69 2.92	4.12 4.75	2.46 3.83	4.45 5.41	2.99 4.80	5.00 6.77	4.03 4.48	5.80 6.38	3.50 3.60	4.93	3.71 3.37	6.11 5.28	11
12	2.73 3.12	4.21 4.92	2.83 4.35	4.97 6.10	3.51 4.43	5.32 6.25	3.98 4.65	6.27 6.09	4.55 5.00	3.54 3.60	3.83 3.19	6.37 5.15	12
13	2.60 3.07	3.93 4.71	2.89 4.07	5.01 6.11	3.45 4.55	5.66 6.41	3.95 4.32	6.28 5.28	4.48 5.02	3.77 3.24	3.80 2.91	5.97	13
14	2.41 3.19	3.75 4.45	3.14 3.99	5.09 5.67	3.38 4.25	5.26 5.73	3.54 3.95	5.69	4.05 4.93	3.71 2.98	4.78 5.95	3.85 2.65	14
15	2.40 3.65	4.02 5.25	2.67 3.98	4.92 5.52	3.05 3.63	4.92	4.91 6.06	3.74 4.00	3.91 4.89	3.79 2.93	4.82 5.90	4.02 2.47	15
16	2.63 3.67	4.45 5.62	2.65 3.95	5.12	4.86 4.96	2.78 3.47	5.13 7.43	4.39 4.38	4.12 4.98	4.00	4.10 5.39	4.05 2.55	16
17	2.44 3.72	4.26 5.30	5.34 5.08	2.76 4.09	4.52 5.41	2.95 3.50	5.19 6.35	4.51	3.27 3.96	4.21 4.82	4.41 5.33	4.00 2.49	17
18	2.59 3.78	4.62	5.64 6.30	3.65 4.00	4.57 5.55	3.30 3.14	3.78 4.69	5.15 7.45	3.00 3.66	3.90 4.69	4.97 5.52	3.92 2.58	18
19	5.02 4.66	2.48 3.67	4.69 5.17	2.89 3.01	4.45 5.36	3.47	4.39 5.16	5.55 7.57	2.94 4.02	4.12 5.08	5.10 5.29	3.78 2.69	19
20	4.93 4.76	2.56 3.46	4.51 5.50	2.94	2.86 3.73	4.42 5.57	4.63 5.51	5.83 7.79	3.20 3.42	4.01 4.51	5.36 5.52	3.93	20
21	4.53 4.47	2.61 3.26	3.38 3.67	5.01 5.95	2.99 4.55	4.91 6.07	4.79 5.68	6.15 7.42	2.79 3.24	3.79 4.58	3.17 3.58	5.54 5.08	21
22	4.49 4.94	2.90 3.56	3.35 3.99	5.16 6.13	3.45 4.49	5.24 5.86	4.65 5.17	5.80 6.80	3.03 3.22	3.92 4.31	2.88 3.16	4.69 5.00	22
23	5.23 5.20	3.56	3.38 4.16	5.25 6.13	3.16 4.30	4.98 5.71	4.34 4.97	5.48 6.97	2.72 2.91	3.59 3.90	3.09 3.18	5.45 5.28	23
24	2.96 2.90	4.57 4.71	3.04 4.27	5.14 5.86	2.99 4.21	4.87 5.63	4.44 4.99	5.79 6.67	2.68 2.79	3.59 3.93	3.23 3.00	5.01 5.04	24
25	2.64 3.01	4.14 4.72	2.88 4.13	4.91 5.49	2.84 4.20	4.80 5.57	4.31 5.10	6.00 6.57	2.80 2.62	4.49 3.71	3.29 3.00	5.28 5.11	25
26	2.47 3.14	4.04 4.76	3.11 4.37	5.06 5.73	2.90 4.32	4.98 5.61	4.33 4.96	5.57 5.98	2.82 2.90	4.91	3.49 3.01	5.68 5.24	26
27	2.41 3.06	3.91 4.63	2.83 4.12	4.75 5.35	3.04 4.44	5.12 5.89	3.94 4.36	5.40 5.21	3.90 5.22	3.07 2.43	4.07 3.25	5.92 5.28	27
28	2.19 3.26	3.71 4.44	2.39 3.89	4.43 5.24	3.23 4.51	5.36 5.71	3.67 4.22	5.37 4.91	3.78 5.85	3.43 3.02	4.26 2.92	5.94	28
29	2.36 3.51	3.81 4.71	2.49 4.32	4.91 5.30	3.27 4.64	5.40 5.70	3.67 4.11	5.49 4.59			5.07 5.95	4.04 3.03	29
30	2.11 3.45	3.89 4.62	2.66 4.86	5.01 6.09	3.47 4.28	5.49 4.94	3.67 3.97	5.59			5.49 6.51	4.94 3.49	30
31	2.05 3.86	4.01 4.90			3.17 4.12	5.35 4.88	4.44 6.26	3.86 3.91			5.66 5.63	4.47 2.96	31
MAXIMUM	5.62		6.30		6.77		NR		6.27		6.51		MAXIMUM
MINIMUM	1.97		1.88		2.50		NR		2.43		2.47		MINIMUM

NR - NO RECORD

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 37 49 28, LONG. 121 33 05, SE. SEC. 20, T1S, R4E,  
APPROXIMATELY 2,000 FEET BELOW JUNCTION WITH GRANT LINE  
CANAL. MAXIMUM GAGE HEIGHT LISTED DOES NOT INDICATE  
MAXIMUM DISCHARGE.

PERIOD OF RECORD: DEC 1948 TO DATE

TABLE B-12 (CONTINUED)

## DAILY TIDES

895340 OLD RIVER AT CLIFTON COURT FERRY  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	4.96 5.92	4.26 3.58	5.09 5.27	2.88 2.42	5.38 4.53	2.69 3.53	5.26 4.11	2.24 3.79	4.85 3.98	2.17	3.26 2.67	4.93 4.56	01
02	6.00 6.44	4.71 4.09	5.05 5.14	2.65 2.60	5.54 4.42	2.59 3.65	5.26 4.55	2.20 3.84	3.59 2.34	4.87 4.26	3.15 2.85	5.07 5.25	02
03	6.38 6.77	4.77 4.28	5.16 5.21	2.54 2.89	5.45 5.50	2.49 3.93	5.26 4.59	2.34 3.81	3.78 2.69	5.07 4.36	3.24 3.04	5.72 5.25	03
04	6.84 6.58	4.62	5.74 5.06	2.71 3.24	5.55 5.19	2.49	5.19 4.23	2.17	3.65 2.64	4.94 4.21	3.16 3.06	5.63 5.86	04
05	4.28 4.65	6.59 7.05	6.42 5.49	2.65 3.53	3.87 2.25	5.54 5.28	3.49 2.10	4.90 4.39	3.43 2.62	4.71 4.47	3.01 2.95	5.36 5.97	05
06	4.89 4.76	6.85 6.61	6.57 4.72	2.41	5.75A 2.33A	2.33A	3.58 2.10	4.88 4.30	2.89 2.35	4.50 4.31	2.89 2.98	5.23 5.11	06
07	4.57 4.21	6.62 6.31	3.64 2.43	5.62 5.17	4.10 2.64	5.71 5.62	3.38 2.08	4.57 4.40	3.00 2.46	4.15 4.40	2.71 3.71	5.26 6.12	07
08	4.53 4.14	6.56 6.73	3.71 2.44	5.74 5.40	3.92 2.18	5.25 4.86	3.07 1.88	4.19 4.43	2.92 2.44	3.98 4.40	2.84 3.98	5.20 6.55	08
09	5.00 4.24	7.12 6.23	4.02 2.32	5.71 5.34	4.16 2.34	5.28	3.10 1.94	4.11 4.00	2.95 3.50	3.99	2.68 4.05	5.25	09
10	4.60 3.47	6.68 5.57	4.07 2.10	5.52 5.23	4.60 5.73	4.08 2.46	3.19 2.09	3.98	4.92 4.04	2.99 3.56	6.28 5.25	2.61 3.98	10
11	4.39 3.18	6.48 5.68	4.03 1.95	5.15	4.94 5.21	4.12 2.63	4.06 3.49	2.82 2.07	5.24A 2.75A	2.75A	6.38 4.45	2.64 4.01	11
12	4.38 3.11	6.48	4.72 4.93	4.12 2.04	5.47 4.95	3.83 2.61	4.04 3.51	2.46 2.41	5.27A 2.68A	2.68A	5.73 5.72	2.79 4.09	12
13	5.31 5.70	4.46 2.79	4.44 4.38	3.89 1.84	5.37 4.62	3.44 2.83	4.26 3.19	2.17 2.88	5.54A 2.58A	2.58A	6.24 6.05	3.19 3.91	13
14	5.45 5.74	4.28 2.72	4.32 4.30	3.42 2.03	5.38 4.25	2.90 2.95	4.51 3.40	2.10 3.20	5.29 4.40	2.25 3.46	6.09 5.94	3.07 3.42	14
15	5.21 5.64	4.23 2.83	4.56 4.59	3.23 2.28	5.10 3.89	2.46 3.31	4.98 3.64	2.10 3.46	5.08 4.49	2.27 3.37	5.55 6.00	3.00	15
16	5.34 5.30	3.89 2.74	5.60 4.41	2.89 2.58	5.31 3.79	2.27 3.56	5.17 4.10	2.09 3.76	4.99 4.48	2.30 3.16	3.24 3.16	6.14 5.30	16
17	5.38 5.88	3.83 3.44	5.85 4.64	2.60 2.78	5.34 4.66	2.37 4.03	5.43 4.08	2.11 3.76	4.77 4.07	2.26	2.93 2.90	4.99 6.01	17
18	5.60 5.73	3.47 3.06	5.78 3.72	2.25 2.68	5.86 5.48	2.53 3.86	5.30 3.97	2.14 3.44	2.88 2.18	4.50 3.98	2.98 3.19	5.08 6.25	18
19	5.33 5.21	3.06 3.08	4.77 3.31	1.99 3.01	5.70 4.99	2.34 3.92	5.13 4.13	2.17	2.82 2.21	4.36 4.16	3.07 3.41	5.15 6.39	19
20	5.53 5.07	3.07 3.19	5.34 3.63	1.83 3.13	6.14 5.28	2.20	3.27 2.26	5.02 4.03	2.50 2.15	4.06 4.34	2.92 3.51	5.12 6.38	20
21	5.60 4.88	2.76	4.83 4.81	1.85	3.71 2.22	5.47 4.66	3.12 2.24	4.73 4.07	2.49 2.28	4.04 4.48	2.80 3.70	4.94 6.41	21
22	3.44 2.79	5.65 5.79	3.35 2.09	6.38 5.02	3.75 2.26	5.42 4.60	3.06 2.19	4.58 4.16	2.48 2.53	3.97 4.59	2.83 4.06	4.69	22
23	3.87 2.88	6.81 5.42	3.63 2.19	6.51 5.11	3.52 2.19	5.02 4.22	2.93 2.23	4.26 4.18	2.41 2.79	3.90	5.78 5.27	2.73 4.10	23
24	3.82 2.63	6.06 5.57	NR	NR	3.13 1.96	4.55	2.74 2.27	3.98	4.77 3.94	2.41 3.51	6.31 5.25	2.78 4.08	24
25	3.86 2.38	5.92 5.37	3.31 1.68	5.28 3.92	4.28 4.22	2.83 1.83	4.21 3.63	2.50 2.57	5.10A 2.64A	2.64A	6.20 5.30	2.85 4.07	25
26	3.91 2.25	6.08 5.10	3.34 1.72	4.77	4.28 3.75	2.53 1.82	4.40 3.86	2.57 3.37	5.34 4.58	2.55 3.79	6.03 5.12	2.64 3.53	26
27	3.77 1.97	5.20	4.33 5.00	3.37 2.00	4.10 3.43	2.21 2.09	4.97 3.91	2.62 3.47	5.28 4.84	2.45 3.87	5.63 5.49	2.64 3.40	27
28	4.70 5.23	3.73 2.03	5.21 4.86	3.29 2.31	4.20 3.44	1.99 2.65	4.98 3.85	2.41 3.69	5.48 5.02	2.32 3.56	5.41 5.62	2.76 3.16	28
29	4.55 5.02	3.49 1.91	5.06 4.49	2.89 2.16	4.51 3.50	1.96 3.28	5.05 4.03	2.38 3.78	5.27 5.04	2.31 3.43	5.61 5.42	2.70	29
30	4.84 5.25	3.24 2.25	4.96 4.95	2.62 2.71	5.01 3.99	2.36 3.64	5.06 4.04	2.22 3.83	5.25 5.14	2.32 3.32	2.71 2.56	5.25 4.96	30
31			4.89 4.81	2.55 3.27			5.05 3.93	2.15 3.59	5.05 4.87	2.46			31
MAXIMUM		7.12	NR		6.14		5.43		5.54		6.55		MAXIMUM
MINIMUM		1.91	NR		1.82		1.88		2.15		2.56		MINIMUM

NR - NO RECORD

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

MAXIMUM GAGE HEIGHT OF RECORD: 9.7 - 12/26/55

ZERO OF GAGE: 1948 TO 1952 -2.25 USCGS  
1952 -2.12 USCGS  
1964 -2.56 USCGS  
1964 TO DATE -3.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

B95278 ITALIAN SLOUGH NEAR MOUTH  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	-1.03 0.14	1.25 2.17	-0.81 1.09	2.01 2.21	0.46 1.46	2.99 2.34	0.27 1.13	3.30 1.47	2.11 3.33	1.02 0.10	2.29 3.73	1.27 -0.04	01
02	-1.19 0.19	1.14 1.63	-0.82 0.71	1.68 1.95	-0.45 0.57	2.27 1.40	0.11 0.23	3.24 1.40	2.02 3.24	1.04 -0.27	1.70 3.17	1.29 -0.11	02
03	-1.21 0.43	1.04 1.78	-0.82 0.19	1.45 1.45	-0.63 0.21	2.14 1.45	1.69 3.24	0.55 0.43	2.24 3.37	1.13 -0.25	2.24 3.69	1.50 -0.29	03
04	-1.22 0.83	1.49 2.07	1.43 1.29	-0.82 -0.32	1.50 2.46	-0.30 0.06	2.13 3.88	1.17 0.54	2.39 3.68	1.06 1.06	2.33 3.26	0.88 -0.55	04
05	-0.82 0.70	1.65 1.65	1.02 1.84	-0.82 -0.25	1.66 2.68	0.07 -0.21	2.92 4.88	1.90 1.90	0.07 1.09	2.70 3.79	2.43 3.32	0.56 0.56	05
06	2.17 1.79	-0.74 0.71	1.73 2.31	-0.64 -0.61	1.72 2.82	0.24 -0.45	0.76 1.85	3.10 4.90	0.05 0.66	2.51 3.68	-0.33 0.65	2.74 3.44	06
07	2.21 1.71	-0.54 0.11	1.62 2.42	-0.53 -0.67	1.76 3.09	0.45 0.45	0.78 1.87	3.25 4.89	-0.14 0.52	2.76 3.53	0.16 0.90	3.26 3.67	07
08	1.73 1.93	-0.70 -0.19	1.10 2.24	-0.40 -0.40	-0.38 0.67	1.96 3.25	0.79 1.96	3.30 4.97	-0.12 0.25	2.81 2.76	0.44 0.86	3.42 3.28	08
09	1.87 2.00	-0.57 -0.35	-0.80 -0.02	1.83 2.65	-0.39 0.74	2.16 3.11	0.82 1.75	3.53 4.68	-0.32 0.08	2.47 2.79	0.04 -0.03	2.37 2.86	09
10	1.75 2.11	-0.53 -0.53	-0.70 0.18	1.83 2.72	-0.57 0.75	1.85 3.32	0.69 1.37	3.41 4.16	-0.22 0.03	2.60 2.47	0.03 0.05	2.99 2.80	10
11	-0.55 -0.28	1.72 2.34	-0.75 0.74	2.13 3.07	-0.49 1.75	2.36 4.13	0.42 1.05	3.28 3.72	-0.06 0.02	2.73 2.21	0.29 0.20	3.47 2.72	11
12	-0.50 -0.07	1.78 2.52	-0.44 1.22	2.41 3.58	0.04 1.19	2.82 3.62	0.41 1.21	3.67 3.44	0.03 -0.02	2.81 2.10	-0.67 -0.14	3.69 2.52	12
13	-0.67 -0.12	1.56 2.37	-0.33 0.95	2.42 3.58	0.00 1.30	3.19 3.75	0.41 0.87	3.69 2.67	0.40 -0.44	2.75 2.75	-0.67 -0.48	3.37 2.10	13
14	-0.80 0.05	1.42 2.33	-0.08 0.88	2.51 3.14	-0.02 1.05	2.70 3.14	0.11 0.57	3.19 2.27	1.60 2.60	0.50 -0.70	0.77 -0.50	3.24 3.24	14
15	-0.81 0.53	1.56 2.87	-0.54 0.90	2.42 2.97	-0.32 0.40	2.42 2.27	0.46 0.59	3.52 3.52	1.51 2.54	0.70 -0.77	2.04 3.13	1.05 -0.53	15
16	-0.73 0.50	1.95 3.15	-0.55 0.89	2.56 2.72	-0.53 0.24	2.46 2.01	2.55 4.46	1.16 0.95	1.75 2.73	1.02 -0.54	1.51 2.68	1.13 -0.50	16
17	-0.81 0.59	1.68 2.75	-0.41 1.01	2.51 1.01	-0.29 0.20	2.91 0.20	2.53 3.76	1.33 0.31	1.80 2.57	0.71 -0.79	1.83 2.60	1.05 -0.59	17
18	-0.71 0.59	2.12 2.52	3.10 3.68	0.51 0.84	1.91 3.03	0.08 -0.18	2.57 4.47	1.48 0.93	1.55 2.43	0.44 0.44	2.26 2.85	0.91 -0.46	18
19	-0.81 0.45	2.18 2.18	2.06 2.66	-0.29 -0.15	1.80 2.81	0.30 -0.50	3.03 4.57	2.01 2.01	-0.79 0.91	1.84 2.81	2.42 2.86	0.76 -0.39	19
20	2.51 2.29	-0.75 0.20	1.86 2.89	-0.20 0.18	1.80 3.01	0.59 -0.38	1.21 2.39	3.17 4.78	-0.65 -0.01	1.74 2.34	2.73 3.00	0.86 0.07	20
21	2.10 2.06	-0.69 -0.05	2.40 3.34	0.55 0.55	2.30 3.50	1.46 1.46	1.35 2.51	3.47 4.42	-0.80 -0.16	1.51 2.47	2.93 2.62	0.48 -0.19	21
22	2.06 2.51	-0.40 0.27	0.15 0.88	2.56 3.56	0.09 1.35	2.67 3.35	1.25 2.00	3.18 3.99	-0.74 -0.23	1.69 2.09	2.25 2.37	0.05 0.05	22
23	2.79 2.68	0.23 -0.32	0.16 1.04	2.65 3.51	-0.23 1.13	2.40 3.18	0.88 1.77	2.87 4.14	-0.80 -0.58	1.41 1.67	-0.05 0.02	2.88 2.69	23
24	2.09 2.26	-0.35 -0.35	-0.19 1.14	2.57 3.27	-0.39 1.05	2.29 3.07	0.92 1.72	3.26 3.92	-0.80 -0.75	1.45 1.75	0.10 -0.18	2.50 2.45	24
25	-0.65 -0.23	1.68 2.29	-0.42 1.06	2.33 3.01	-0.55 1.05	2.25 3.01	0.78 1.80	3.43 3.84	-0.78 -0.65	2.32 1.48	0.16 -0.17	2.72 2.50	25
26	-0.79 -0.10	1.55 2.36	-0.13 1.33	2.64 3.17	-0.49 1.17	2.42 3.04	0.78 1.70	3.06 3.34	-0.50 -0.72	2.63 1.48	0.37 -0.22	3.24 2.63	26
27	-0.80 -0.13	1.64 2.18	-0.44 1.06	2.11 2.73	-0.32 1.29	2.47 3.22	0.42 1.01	3.02 2.67	-0.22 -0.80	2.84 1.34	0.97 0.02	3.41 2.65	27
28	-0.81 0.14	1.27 2.17	-0.80 0.83	1.75 2.60	-0.16 1.31	2.76 2.98	0.22 0.84	2.91 2.31	0.35 -0.39	3.36 3.36	1.18 -0.26	3.44 2.33	28
29	-0.81 0.38	1.30 2.27	-0.78 1.24	2.32 2.62	-0.13 1.48	2.82 2.95	0.28 0.70	3.07 1.94			1.02 -0.13	3.28 3.28	29
30	-0.82 0.32	1.30 2.13	-0.58 1.87	2.54 3.48	0.14 1.06	2.85 2.18	0.36 0.52	3.15 1.80			2.71 3.95	1.93 0.37	30
31	-0.81 0.81	1.45 2.35			-0.09 0.93	2.75 2.14	0.62 0.40	3.69 3.69			2.88 2.99	1.44 -0.21	31
MAXIMUM		3.15	3.68		4.13		4.97		3.79		3.95		MAXIMUM
MINIMUM		-1.22	-0.82		-0.63		0.11		-0.80		-0.59		MINIMUM

LOCATION: LAT. 37 51 38, LONG. 121 34 48, NW SEC. 7, T1S, R4E,  
ON CLIFTON COURT ISLAND, 6.1 MILES SOUTHEAST OF BYRON.

PERIOD OF RECORD: MAY 1968 TO DATE

TABLE R-12 (CONTINUED)

## DAILY TIDES

B95278 ITALIAN SLOUGH NEAR MOUTH  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	2.29	1.22	2.32	-0.06	2.96	-0.26	2.95	-0.70	2.58	-0.78	2.48	-0.28	01
	3.25	0.44	2.34	-0.51	1.93	0.60	1.66	0.69	1.57	0.63	2.08		
02	3.35	1.63	2.39	-0.30	3.13	-0.33	2.94	-0.73	2.62	-0.63	0.22	2.49	02
	3.71	0.95	2.20	-0.36	1.92	0.69	1.95	0.96	1.66	0.85	-0.09	2.57	
03	3.83	1.70	2.55	-0.40	3.02	-0.47	2.97	-0.59	2.80	-0.25	0.30	2.89	03
	3.91	1.16	2.31	-0.04	2.57	1.02	2.05		1.98		0.07	2.58	
04	4.00	1.51	2.86	-0.25	3.13	-0.47	0.93	2.90	0.66	2.65	0.18	2.77	04
	3.80	1.22	2.24	0.30	2.39	0.97	-0.76	1.72	-0.29	1.88	0.12	2.99	
05	3.95	1.57	3.54	-0.30	2.96	-0.73	0.63	2.64	0.51	2.39	0.04	2.48	05
	4.19		2.57	0.63	2.53		-0.79	1.87	-0.33	2.04	0.05	3.07	
06	1.83	4.20	3.67	-0.60	1.18	3.00	0.70	2.58	0.28	2.00	-0.07	2.32	06
	1.67	3.79	2.03		-0.65	2.48	-0.81	1.79	-0.58	1.91	0.07	2.51	
07	1.50	3.96	0.70	3.02	1.21	3.00	0.51	2.29	0.08	1.74	-0.21	2.36	07
	1.08	3.50	-0.53	2.39	-0.38	2.69	-0.84	1.90	-0.48	2.04	0.80	3.19	
08	1.47	3.88	0.83	3.12	1.23	2.73	0.26	1.89	0.02	1.53	-0.13	2.28	08
	0.97	3.92	-0.52	2.51	-0.77	2.27	-0.90	1.92	-0.48	2.09	1.08	3.65	
09	1.95	4.21	1.14	3.09	1.26	2.72	0.23	1.77	0.05	1.56	-0.24	2.29	09
	1.13	3.44	-0.64	2.44	-0.63	2.12	-0.88	1.73	0.21	2.60	1.15	3.48	
10	1.57	3.86	1.16	2.86	1.20	2.84	0.28	1.52	0.09	1.48	-0.36	2.31	10
	0.35	2.74	-0.80	2.31	-0.52	2.36	-0.81	1.83	0.60	2.78	1.10		
11	1.36	3.61	1.12	2.49	1.19	2.40	-0.08	1.04	-0.15	1.42	3.53	-0.33	11
	0.17	2.65	-0.81		-0.34		-0.83		0.89		1.84	0.69	
12	1.42	3.42	1.98	1.13	2.79	0.90	1.83	-0.45	2.99	-0.22	3.00	-0.14	12
	0.09		2.27	-0.81	2.08	-0.33	0.82	-0.48	1.77	1.34	2.94	1.19	
13	2.29	1.50	1.88	0.87	2.73	0.51	2.02	-0.73	3.24	-0.34	3.59	0.25	13
	2.70	-0.22	1.62	-0.81	1.78	-0.11	0.74	0.00	1.75	1.08	3.13	0.97	
14	2.52	1.34	1.81	0.50	2.79	-0.02	2.32	-0.78	2.99	-0.69	3.42	0.10	14
	2.70	-0.28	1.43	-0.80	1.45	0.02	0.95	0.38	1.79	0.65	3.02	0.47	
15	2.33	1.26	2.04	0.31	2.55	-0.49	2.69	-0.80	2.89	-0.62	2.95	0.07	15
	2.64	-0.17	1.68	-0.65	1.26	0.36	1.21	0.68	1.84	0.51	3.10		
16	2.48	0.94	2.70	-0.03	2.75	-0.70	2.88	-0.80	2.77	-0.63	0.29	3.23	16
	2.38	-0.23	1.47	-0.33	1.33	0.63	1.54	0.86	1.94	0.23	0.19	2.70	
17	2.54	0.89	2.95	-0.36	2.98	-0.56	3.12	-0.78	2.58	-0.69	0.02	2.42	17
	2.87	0.47	1.70	-0.17	2.00	1.10	1.64	0.81	1.70		0.00	3.16	
18	2.84	0.51	2.87	-0.72	3.42	-0.44	3.05	-0.78	-0.05	2.29	0.03	2.45	18
	2.74	0.06	1.14	-0.21	2.57	1.20	1.58	0.52	-0.74	1.70	0.25	3.40	
19	2.57	0.11	2.31	-0.80	3.36	-0.57	2.93	-0.77	-0.09	2.11	0.12	2.45	19
	2.31	0.12	0.92	-0.01	2.24	1.03	1.75		-0.72	1.83	0.49	3.52	
20	2.68	0.08	2.59	-0.80	3.35	-0.70	0.34	2.83	-0.43	1.75	0.02	2.24	20
	2.23	0.24	1.10	0.20	2.40		-0.67	1.78	-0.77	2.01	0.60	3.50	
21	2.74	-0.22	2.46	-0.78	0.83	3.15	0.22	2.56	-0.44	1.65	-0.16	2.10	21
	2.11	0.49	1.92	0.43	-0.68	2.13	-0.70	1.84	-0.64	2.18	0.78	3.50	
22	2.96	-0.21	3.51	-0.79	0.87	3.10	0.13	2.35	-0.45	1.55	-0.08	2.18	22
	2.80		2.14		-0.63	2.10	-0.72	1.98	-0.39	2.27	1.16	2.94	
23	0.93	3.85	0.69	3.67	0.64	2.69	0.03	2.02	-0.52	1.38	-0.18	2.33	23
	-0.10	2.69	-0.77	2.25	-0.72	1.91	-0.69	2.05	-0.12	2.43	1.20		
24	0.91	3.31	0.76	3.59	0.27	2.17	-0.16	1.70	-0.50	1.40	3.38	-0.18	24
	-0.36	2.65	-0.79	1.30	-0.85	1.92	-0.65	2.11	0.56	2.74	2.40	1.17	
25	0.95	3.19	0.41	2.72	-0.07	1.76	-0.40	1.33	-0.28	1.80	3.27	-0.07	25
	-0.61	2.44	-0.80	1.52	-0.86	1.90	-0.35		1.08		2.46	1.17	
26	1.00	3.11	0.44	2.35	-0.36	1.29	2.27	-0.34	2.89	-0.36	3.14	-0.31	26
	-0.73	2.15	-0.80	1.76	-0.87		1.47	0.42	1.84	0.88	2.25	0.62	
27	0.84	2.55	0.47	2.41	1.86	-0.69	2.76	-0.29	2.79	-0.48	2.78	-0.26	27
	-0.85	1.97	-0.78		0.98	-0.81	1.52	0.63	2.12	0.94	2.60	0.49	
28	0.81	2.53	2.67	0.40	2.02	-0.85	2.69	-0.51	2.86	-0.63	2.66	-0.15	28
	-0.85		2.21	-0.65	0.95	-0.23	1.46	0.78	2.22	0.62	2.74	0.28	
29	1.85	0.58	2.51	-0.01	2.30	-0.85	2.79	-0.56	2.70	-0.63	2.75	-0.21	29
	2.25	-0.85	1.79	-0.75	1.12	0.39	1.58	0.85	2.23	0.51	2.56	-0.19	
30	2.07	0.31	2.38	-0.33	2.79	-0.58	2.74	-0.74	2.64	-0.61	2.39	-0.35	30
	2.44	-0.73	2.08	-0.25	1.61	0.77	1.58	0.86	2.32	0.41	2.19		
31			2.54	-0.38			2.73	-0.75	2.51	-0.49			31
			2.11	0.34			1.50	0.63	2.12	0.32			
MAXIMUM	4.21		3.67		3.42		3.12		3.24		3.65		MAXIMUM
MINIMUM	-0.85		-0.81		-0.87		-0.90		-0.78		-0.36		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 6.34 - 2/15/69

ZERO OF GAGE: 1968 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895300 GRANT LINE CANAL AT TRACY ROAD BRIDGE  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	2.57 3.58	4.48 5.34	2.33 4.06	4.99 5.12	3.62 4.46	5.93 5.47	3.65 4.39	6.38	5.38 6.35	4.38 3.70	5.32 6.73	4.26 3.05	01
02	2.44 3.56	4.50 5.12	2.10 3.71	4.62 4.84	2.76 3.64	5.14 4.34	4.61 6.47	3.44 3.60	5.29 6.25	4.39 3.42	4.33 5.94	4.17 3.13	02
03	2.12 3.76	4.30 4.97	2.06 3.21	4.27	2.54 3.33	5.04	4.87 6.20	3.76 3.71	5.49 6.37	4.47	5.07 6.82	4.53 3.18	03
04	2.03 3.77	4.38	4.28 3.98	1.79 2.70	4.58 5.45	2.84 3.21	5.31 6.92	4.36	3.42 4.39	5.43 6.68	5.45 6.27	4.06 2.91	04
05	4.82 4.50	2.14 3.66	3.76 4.51	1.81 2.73	4.79 5.60	3.19 3.01	4.01 5.10	6.19 8.12	3.67 4.51	5.99 6.82	5.53 6.26	3.61	05
06	4.91 4.56	2.43 3.69	4.74 5.31	2.41 2.47	4.73 5.71	3.35	4.25 5.10	6.38 8.17	3.65 4.09	5.75 6.88	3.12 3.93	5.82 6.30	06
07	4.87 4.16	2.54 3.12	4.62 5.20	2.53	2.84 3.53	4.74 5.99	4.32 5.14	6.52 8.17	3.47 3.94	5.99 6.73	3.52 4.18	6.36 6.36	07
08	4.25 4.70	2.41 2.88	2.38 2.61	3.70 4.99	2.93 3.74	4.93 6.11	4.32 5.23	6.36 8.23	3.42 3.67	6.01 5.76	3.84 4.23	6.57 6.21	08
09	4.53 4.79	2.57	2.31 3.00	4.71 5.52	2.93 3.82	5.28 5.90	4.37 5.10	6.82 7.97	3.19 3.47	5.34 5.97	3.48 3.41	5.11 6.02	09
10	2.75 2.59	4.35 4.90	2.41 3.18	4.57 5.47	2.77 3.82	4.84 6.24	4.31 4.80	6.71 7.46	3.24 3.42	5.46 5.65	3.48 3.52	6.14 5.97	10
11	2.57 2.78	4.36 5.09	2.37 3.69	5.12 5.77	2.86 4.74	5.54 7.07	4.08 4.55	6.58 7.01	3.32 3.39	5.61 5.38	3.69 3.50	6.62 5.85	11
12	2.62 2.98	4.47 5.22	2.72 4.21	5.28 6.43	3.36 4.29	5.97 6.69	4.06 4.68	6.97 6.73	3.31 3.29	5.67	3.96 3.39	6.83 5.65	12
13	2.47 2.90	4.20 5.08	2.81 3.94	5.46 6.44	3.32 4.41	6.32 6.90	4.03 4.37	6.97 5.93	5.25 5.67	3.60 2.96	3.90 3.13	6.51	13
14	2.28 3.04	4.03 4.83	3.02 3.86	5.55 5.99	3.31 4.16	5.69 6.31	3.70 4.02	6.23	4.74 5.70	3.66 2.74	5.21 6.36	3.93 3.00	14
15	2.25 3.52	4.33 5.64	2.59 3.87	5.25 5.80	3.02 3.55	5.33 5.42	5.54 6.54	3.85 3.98	4.50 5.57	3.83 2.66	5.13 6.24	4.15 2.80	15
16	2.41 3.48	4.99 6.19	2.56 3.86	5.35	2.76 3.44	5.40	5.75 7.65	4.41 4.31	4.90 5.65	4.00 2.91	4.30 5.64	4.14 2.80	16
17	2.26 3.54	4.58 5.85	5.64 5.26	2.73 3.98	5.16 5.89	2.95 3.45	5.76 6.80	4.56 3.77	4.75 5.43	3.88	4.55 5.72	4.06 2.73	17
18	2.42 3.58	5.17	5.93 6.75	3.58 3.92	5.10 5.96	3.29 3.12	5.82 7.70	4.70	2.64 3.56	4.38 5.32	5.32 5.94	3.99 2.84	18
19	5.37 5.23	2.31 3.51	4.94 5.52	2.85 2.95	4.96 5.80	3.45	4.32 5.20	6.05 7.84	2.48 4.02	4.72 5.77	5.48 5.70	3.85 2.91	19
20	5.30 5.34	2.39 3.26	4.90 5.91	2.85	2.86 3.70	4.96 6.02	4.61 5.59	6.31 8.06	2.73 3.18	4.68 5.27	5.79 5.82	3.97	20
21	4.85 4.79	2.44 3.03	3.31 3.62	5.50 6.40	2.98 4.49	5.43 6.40	4.78 5.76	6.76 7.95	2.36 3.02	4.41 5.31	3.33 3.66	5.98 5.34	21
22	4.83 5.28	2.70 3.33	3.33 3.93	5.65 6.48	3.39 4.43	5.82 6.30	4.67 5.22	6.49 7.28	2.64 3.02	4.54 5.06	3.05 3.26	4.97 5.31	22
23	5.56 5.57	3.32	3.38 4.10	5.76 6.57	3.14 4.24	5.58 6.12	4.33 5.07	6.05 7.44	2.38 2.70	4.12 4.51	3.20 3.27	5.92 5.74	23
24	2.80 2.74	5.11 5.06	3.07 4.22	5.69 6.26	3.01 4.15	5.46 6.02	4.44 5.04	6.57 7.21	2.37 2.56	4.13 4.70	3.35 3.09	5.28 5.50	24
25	2.47 2.85	4.48 5.09	2.89 4.05	5.44 5.81	2.87 4.15	5.39 5.98	4.31 5.15	6.73 7.12	2.53 2.50	5.41 4.46	3.37 3.12	5.61 5.57	25
26	2.31 2.97	4.37 5.11	3.09 4.31	5.69 6.05	2.91 4.25	5.59 5.93	4.35 5.17	6.20 6.64	2.75 2.72	5.73 4.46	3.56 3.10	6.10 5.69	26
27	2.20 2.92	4.30 5.10	2.83 4.04	5.07 5.65	3.01 4.37	5.52 6.23	4.05 4.51	6.14 5.96	2.97 2.42	5.93	4.09 3.39	6.32 5.67	27
28	2.07 3.16	3.96 4.82	2.44 3.84	4.76 5.59	3.22 4.45	5.99 6.09	3.86 4.35	6.10 5.59	4.33 6.34	3.43 2.91	4.27 3.20	6.18 5.46	28
29	2.23 3.41	4.17 5.08	2.53 4.25	5.44 5.63	3.33 4.73	5.89 6.12	3.85 4.19	6.23 5.21			4.21 3.38	6.25 3.84	29
30	1.94 3.30	4.24 4.98	2.69 4.84	5.48 6.41	3.64 4.35	5.93 5.32	3.87 4.07	6.39			5.84 6.86	5.02 3.84	30
31	1.90 3.77	4.31 5.24			3.34 4.19	5.76 5.41	5.08 6.93	4.10 3.96			6.06 5.92	4.64 3.30	31
MAXIMUM	6.19		6.75		7.07		8.23		6.88		6.86		MAXIMUM
MINIMUM	1.90		1.79		2.54		3.44		2.36		2.73		MINIMUM

LOCATION: LAT. 37 49 13, LONG. 121 26 55, NE SEC. 29, T1S, R5E,  
AT TRACY ROAD BRIDGE CROSSING, 5 MILES NORTH OF TRACY.  
STATION WAS DISCONTINUED OCTOBER 4, 1966, AND REACTIVATED  
MARCH 1, 1968.

PERIOD OF RECORD: OCT 1940 TO SEPT 1966  
MAR 1968 TO DATE

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895300 GRANT LINE CANAL AT TRACY ROAD BRIDGE  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	5.13 6.22	4.40 3.88	5.22 5.51	3.32 2.92	NR	NR	NR	NR	4.98 4.08	2.28 3.54	NR	NR	01
02	6.32 6.77	4.90 4.37	5.18 5.35	3.04 3.08	NR	NR	5.39 4.65	2.39 3.89	4.99 4.39	2.43	NR	NR	02
03	6.75 7.18	5.02	5.25 5.41	2.95 3.30	NR	NR	5.38 4.70	2.51	3.67 2.76	5.18 4.50	NR	NR	03
04	4.60 4.91	7.27 7.06	5.90 5.19	3.09	NR	NR	3.78 2.34	5.30 4.31	3.59 2.73	5.05 4.35	NR	NR	04
05	4.64 4.98	6.96 7.49	3.55 3.09	6.61 5.68	NR	NR	3.53 2.33	5.03 4.56	3.48 2.71	4.83 4.58	3.16 3.12	5.51 6.06	05
06	5.19 5.07	7.21 7.07	3.86 2.91	6.77 4.87	NR	NR	3.67 2.39	5.04 4.44	3.25 2.46	4.53 4.45	3.06 3.12	5.37 5.26	06
07	4.88 4.58	6.95 6.80	3.84 2.86	5.77 5.35	NR	NR	3.45 2.32	4.74 4.51	3.07 2.59	4.28 4.52	2.88 3.79	5.39 6.19	07
08	4.84 4.62	6.92 7.18	3.91 2.84	5.88 5.59	NR	NR	3.12 2.13	4.28 4.57	2.99 2.52	4.09 4.53	3.03 4.07	5.36 6.69	08
09	5.26 4.61	7.46 6.70	4.25 2.87	5.89 5.56	NR	NR	3.20 2.16	4.22	3.01 3.14	4.10 5.04	2.93 4.11	5.41	09
10	4.89 3.92	7.12 5.99	4.29 2.67	5.68	NR	NR	4.16 4.11	3.28 2.33	3.09 3.56	4.06	6.38 5.39	2.80 4.05	10
11	4.64 3.70	6.85 5.86	5.40 5.29	4.19 2.53	NR	NR	4.20 3.58	2.96 2.27	5.43 3.97	2.86 3.73	6.49 4.60	2.84 3.67	11
12	4.65 3.60	6.69	4.86 5.08	4.26 2.65	NR	NR	4.18 3.64	2.62 2.54	5.39 4.40	2.84 4.25	5.82 5.79	3.01 4.20	12
13	5.48 5.86	4.70 3.27	4.61 4.53	4.03 2.39	NR	NR	4.38 3.27	2.34 2.91	5.67 4.57	2.74 4.01	6.40 6.20	3.41 4.05	13
14	5.54 5.90	4.54 3.21	4.43 4.45	3.68 2.57	NR	NR	4.65 3.50	2.30 3.22	5.42 4.53	2.41 3.44	6.23 6.08	3.25	14
15	5.37 5.83	4.50 3.30	4.73 4.82	3.53 2.80	NR	NR	5.13 3.77	2.35 3.53	5.22 4.69	2.47 3.40	3.55 3.16	5.69 6.15	15
16	5.44 5.49	4.19 3.19	5.79 4.64	3.32 3.03	NR	NR	5.33 4.23	2.30 3.77	5.12 4.63	2.47 3.27	3.37 3.28	6.28 5.44	16
17	5.47 6.13	4.15 3.87	6.04 4.88	3.08 3.17	NR	NR	5.57 4.19	2.33 3.76	4.91 4.21	2.43	3.09 2.95	5.14 6.16	17
18	5.71 5.89	3.84 3.44	5.97 3.94	2.79 3.08	NR	NR	5.42 4.08	2.33	2.99 2.43	4.65 4.16	3.06 3.25	5.21 6.42	18
19	5.43 5.39	3.47 3.49	4.95 3.56	2.63 3.30	NR	NR	3.46 2.33	5.25 4.23	2.97 2.40	4.52 4.30	3.16 3.48	5.27 6.58	19
20	5.59 5.19	3.48	5.57 3.82	2.51 3.41	NR	NR	3.31 2.40	5.15 4.16	2.66 2.32	4.22 4.48	3.08 3.60	5.22 6.57	20
21	3.57 3.21	5.75 5.00	4.98 5.00	2.44	NR	NR	3.20 2.42	4.85 4.22	2.64 2.43	4.16 4.63	2.94 3.80	5.06 6.58	21
22	3.73 3.27	5.83 5.96	3.64 2.60	6.58 5.18	NR	NR	3.14 2.37	4.71 4.31	2.65 2.66	4.11 4.74	3.05 4.14	4.78	22
23	4.13 3.33	6.98 5.62	3.84 2.65	6.69 5.28	NR	NR	3.01 2.34	4.37	NR	NR	5.75 5.38	2.94 4.18	23
24	4.07 3.09	6.20 5.73	3.86 2.33	6.60	NR	NR	4.33 4.09	2.84 2.35	NR	NR	6.45 5.29	2.95 4.18	24
25	4.06 2.81	6.08 5.53	3.82 5.45	3.39 2.10	NR	NR	4.35 3.75	2.59 2.62	NR	NR	6.34 5.39	3.08 4.17	25
26	4.08 2.67	6.28	4.02 4.96	3.43 2.11	NR	NR	4.54 3.97	2.65 3.40	NR	NR	6.21 5.29	2.86 3.68	26
27	5.25 5.35	3.90 2.42	4.48 5.18	3.49 2.43	NR	NR	5.11 4.01	2.77 3.41	NR	NR	5.77 5.67	2.90 3.56	27
28	4.83 5.38	3.86 2.49	5.38 4.97	3.51 2.69	NR	NR	5.09 3.98	2.51 3.60	NR	NR	5.53 5.81	2.99	28
29	4.65 5.08	3.69 2.38	5.24 4.60	3.15 2.54	NR	NR	5.21 4.15	2.47 3.77	NR	NR	3.38 2.94	5.78 5.60	29
30	4.94 5.45	3.47 2.67	5.14 5.16	2.93 3.06	NR	NR	5.18 4.14	2.31 3.78	NR	NR	2.95 2.82	5.42 5.12	30
31			NR	NR			5.19 4.04	2.30 3.57	NR	NR			31
MAXIMUM	7.49		NR		NR		NR		NR		NR		MAXIMUM
MINIMUM	2.38		NR		NR		NR		NR		NR		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 14.7 - 12/11/50

ZERO OF GAGE: 1940 TO 1952 -3.66 USCGS  
1952 TO 1953 -4.13 USCGS  
1953 TO 1960 -2.13 USCGS  
1960 -3.00 USCGS  
1964 -3.56 USCGS  
1964 TO DATE -3.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895270 OLD RIVER NEAR BYRON  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	-0.61 0.58	1.73 2.66	-0.84 1.10	2.03 2.23	0.44 1.44	3.03 2.26	0.24 1.06	3.31 1.38	1.99 3.36	0.98 0.05	1.28 0.02	3.71	01
02	-0.76 0.58	1.59 2.39	-1.07 0.71	1.72 1.97	-0.48 0.55	2.29 1.41	0.03 0.18	3.11	1.90 3.27	1.00 -0.32	1.87 3.33	1.28 -0.12	02
03	-1.03 0.80	1.49 2.24	-1.06 0.20	1.56 1.47	-0.65 0.19	2.21	1.56 3.27	0.53 0.36	2.11 3.39	1.09 -0.30	2.31 3.64	1.45 -0.29	03
04	-1.15 0.82	1.53 2.12	-1.30 -0.32	1.41	1.42 2.54	-0.32 0.00	2.00 3.89	1.12 0.47	2.30 3.69	1.02	2.26 3.24	0.87 -0.55	04
05	-1.06 0.71	1.70	1.10 1.83	-1.26 -0.23	1.57 2.75	0.03 -0.23	2.79 4.75	1.85 0.68	0.03 1.03	2.56 3.79	2.37 3.31	0.63 -0.34	05
06	2.28 1.94	-0.69 0.71	1.69 2.27	-0.62 -0.61	1.66 2.88	0.23 -0.47	2.96 4.78	1.79	-0.02 0.61	2.41 3.56	2.69 3.55	0.67	06
07	2.33 1.89	-0.53 0.13	1.55 2.50	-0.52 -0.68	1.74 3.16	0.43	0.70 1.80	3.10 4.77	-0.19 0.50	2.65 3.42	0.15 0.92	3.19 3.74	07
08	1.91 2.01	-0.66 -0.18	1.26 2.35	-0.39 -0.79	-0.40 0.66	1.93 3.33	0.71 1.90	3.25 4.84	-0.16 0.24	2.71 2.77	0.44 0.84	3.35 3.32	08
09	1.99 2.08	-0.55 -0.34	1.78 2.76	-0.02	-0.42 0.73	2.07 3.21	0.74 1.66	3.38 4.54	-0.34 0.03	2.53 2.69	0.05 -0.05	2.53 2.78	09
10	1.86 2.17	-0.52 -0.54	-0.70 0.18	1.87 2.84	-0.61 0.72	1.85 3.38	0.60 1.30	3.26 4.01	-0.24 0.02	2.68 2.38	0.03 0.03	2.98 2.71	10
11	1.84 2.44	-0.27	-0.74 0.75	2.07 3.20	-0.53 1.71	2.37 4.16	0.32 0.97	3.13 3.58	-0.08 0.00	2.80 2.12	0.28 0.19	3.40 2.64	11
12	-0.49 -0.06	1.89 2.61	-0.41 1.24	2.47 3.64	0.00 1.16	2.70 3.60	0.33 1.15	3.53 3.29	0.01 -0.04	2.87 2.02	0.66 -0.04	3.60 2.45	12
13	-0.66 -0.11	1.68 2.48	-0.33 0.97	2.37 3.65	-0.07 1.26	3.08 3.64	0.33 0.81	3.53 2.53	0.39 -0.45	2.81	0.66 -0.46	3.29 2.93	13
14	-0.85 0.06	1.56 2.52	-0.09 0.88	2.45 3.19	-0.09 1.01	2.72 3.03	0.05 0.52	3.16 2.13	1.50 2.64	0.48 -0.72	0.76 -0.49	3.15	14
15	-0.87 0.52	1.66 2.94	-0.55 0.90	2.44 2.98	-0.37 0.36	2.47 2.16	0.39 0.54	3.49	1.46 2.58	0.68 -0.80	1.97 3.05	1.03 -0.52	15
16	-0.72 0.49	1.90 3.09	-0.53 0.87	2.67 2.73	-0.57 0.20	2.51 1.90	2.42 4.35	1.13 0.90	1.68 2.79	1.01 -0.54	1.62 2.66	1.00 -0.49	16
17	-0.88 0.59	1.73 2.82	-0.40 1.00	2.62	-0.33 0.15	2.95	2.41 3.73	1.29 0.26	1.83 2.62	0.72 -0.83	1.88 2.57	1.01 -0.58	17
18	-0.69 0.59	2.06 2.57	3.16 3.60	0.50 0.83	1.80 2.98	0.04 -0.26	2.44 4.35	1.47 0.88	1.60 2.49	0.45 -0.92	2.20 2.77	0.91 -0.47	18
19	-0.82 0.48	2.12 2.57	2.12 2.72	-0.29 -0.16	1.57 2.83	0.27 -0.53	2.97 4.45	1.96	1.89 2.89	0.91	2.36 2.81	0.76 -0.36	19
20	-0.75 0.20	2.23	1.81 2.93	-0.21 0.17	1.70 2.99	0.57 -0.45	1.17 2.33	3.15 4.64	-0.65 -0.01	1.78 2.36	2.67 3.06	0.86 0.08	20
21	2.18 2.17	-0.68 -0.05	2.32 3.39	0.53 0.14	2.21 3.58	1.45	1.30 2.43	3.42 4.39	-1.01 -0.15	1.59 2.52	2.88 2.68	0.48 -0.20	21
22	2.14 2.60	-0.41 0.26	2.48 3.59	0.87	0.05 1.32	2.56 3.38	1.19 1.93	3.05 3.85	-0.72 -0.23	1.74 2.12	2.37 2.46	0.00	22
23	2.87 2.76	0.26 -0.32	0.14 1.03	2.57 3.51	-0.27 1.10	2.30 3.22	0.81 1.70	2.81 4.00	-1.02 -0.57	1.50 1.74	-0.04 0.04	2.83 2.62	23
24	2.04 2.34	-0.35	-0.20 1.13	2.49 3.29	-0.44 1.02	2.19 3.09	0.85 1.67	3.11 3.79	-0.97 -0.74	1.60 1.60	0.11 -0.17	2.61 2.40	24
25	-0.65 -0.22	1.74 2.36	-0.43 1.06	2.25 3.13	-0.59 1.03	2.13 3.03	0.71 1.73	3.28 3.70	-0.77 -0.54	2.26 1.40	0.18 -0.17	2.80 2.44	25
26	-0.84 -0.09	1.61 2.44	-0.14 1.30	2.56 3.21	-0.52 1.14	2.33 3.06	0.71 1.61	3.03 3.20	-0.49 -0.56	2.57 1.45	0.37 -0.21	3.24 2.56	26
27	-0.97 -0.11	1.63 2.26	-0.45 1.05	2.14 2.75	-0.36 1.25	2.48 3.18	0.34 0.95	2.95 2.53	-0.20 -0.90	2.78 1.31	0.97 0.00	3.43 2.59	27
28	-1.13 0.15	1.40 2.32	-0.88 0.82	1.78 2.60	-0.21 1.27	2.70 2.99	0.15 0.78	2.87 2.18	0.35 -0.32	3.32 2.36	1.18 -0.27	3.53 2.23	28
29	-0.97 0.37	1.39 2.32	-0.80 1.24	2.23 2.63	-0.19 1.43	2.78 2.92	0.22 0.64	3.02 1.83			1.00 -0.13	3.31	29
30	-1.27 0.32	1.36 2.19	-0.59 1.87	2.58 3.49	0.01 1.00	2.77 2.13	0.31 0.46	3.13 1.68			2.62 3.99	1.92 0.34	30
31	-1.27 0.80	1.50 2.39			-0.15 0.87	2.75 2.01	0.57 0.34	3.56			2.77 3.04	1.42 -0.26	31
MAXIMUM	3.09		3.65		4.16		4.84		3.79		3.99		MAXIMUM
MINIMUM	-1.27		-1.30		-0.65		0.03		-1.02		-0.58		MINIMUM

LOCATION: LAT. 37 53 28, LONG. 121 34 09, NE SEC. 31, T1N, R4E  
AT HIGHWAY 4 BRIDGE, 4.2 MILES EAST OF BYRON.

PERIOD OF RECORD: MAY 1963 TO DATE



TABLE 8-12 (CONTINUED)

## DAILY TIDES

 895270 OLD RIVER NEAR BYRON  
 (APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	2.35	1.21	2.40	-0.04	3.14	-0.25	3.14	-0.67	2.77	-0.77	2.63	-0.27	01
	3.26	0.43	2.29	-0.48	2.06	0.61	1.84	0.48	1.72	0.57	2.22		
02	3.38	1.60	2.48	-0.29	3.29	-0.34	3.15	-0.72	2.43	-0.61	0.23	2.60	02
	3.66	0.91	2.14	-0.33	2.09	0.73	2.05	0.96	2.03	0.81	-0.09	2.62	
03	3.80	1.65	2.64	-0.40	3.20	-0.47	3.16	-0.61	2.99	-0.24	0.32	2.82	03
	3.79	1.11	2.23	0.00	2.52	1.03	2.14	0.94	2.14	0.71	0.07	2.69	
04	3.87	1.47	2.98	-0.24	3.28	-0.47	3.08	-0.74	2.82	-0.28	0.18	2.69	04
	3.68	1.17	2.32	0.32	2.42	0.97	1.86	0.65	2.10		0.12	2.63	
05	3.94	1.54	3.49	-0.29	3.09	-0.71	2.84	-0.75	0.51	2.60	0.04	2.41	05
	4.07		2.52	0.64	2.47		2.02		-0.31	2.18	0.04	2.99	
06	1.78	4.24	3.60	-0.59	1.18	3.14	0.75	2.80	0.29	2.16	-0.07	2.25	06
	1.60	3.64	2.13	0.73	-0.64	2.48	-0.77	1.98	-0.57	2.10	0.09	2.62	
07	1.45	3.94	3.15	-0.52	1.20	3.10	0.54	2.53	0.09	1.95	-0.21	2.25	07
	1.03	3.37	2.40		-0.41	2.60	-0.80	2.00	-0.41	2.23	0.79	3.13	
08	1.42	3.90	0.83	3.21	1.22	2.86	0.28	2.11	0.03	1.69	-0.13	2.17	08
	0.97	3.83	-0.49	2.50	-0.81	2.36	-0.98	2.05	-0.46	2.31	1.09	3.57	
09	1.91	4.18	1.14	3.20	1.24	2.83	0.26	1.96	0.06	1.73	-0.24	2.20	09
	1.07	3.31	-0.57	2.42	-0.64	2.26	-0.92	1.95	0.22	2.81	1.13	3.41	
10	1.53	3.73	1.19	2.93	1.14	2.77	0.27	1.72	0.10	1.62	-0.37	2.25	10
	0.29	2.62	-0.81	2.25	-0.54	2.46	-0.79	2.07	0.58	2.98	1.10		
11	1.33	3.49	1.13	2.56	1.18	2.42	-0.07	1.19	-0.14	1.58	3.45	-0.36	11
	0.12	2.51	-0.99	2.14	-0.33	2.81	-0.84	2.08	0.09	3.20	1.95	0.67	
12	1.39	3.29	1.19	2.37	0.91	2.06	-0.43	0.95	-0.20	1.93	3.13	-0.16	12
	0.05	2.25	-0.86		-0.32		-0.48		1.29		2.89	1.18	
13	1.47	2.68	2.00	0.81	2.82	0.52	2.23	-0.72	3.43	-0.32	3.64	0.23	13
	-0.26		1.66	-1.09	1.79	-0.88	0.89	-0.04	1.93	1.06	3.03	0.98	
14	2.43	1.31	1.95	0.52	2.85	-0.02	2.54	-0.79	3.18	-0.67	3.47	0.09	14
	2.59	-0.32	1.46	-0.86	1.53	0.05	1.10	0.40	1.87	0.67	2.94	0.48	
15	2.33	1.24	2.19	0.32	2.72	-0.45	2.91	-0.77	3.10	-0.61	3.04	0.05	15
	2.53	-0.20	1.65	-0.61	1.39	0.41	1.40	0.72	1.99	0.53	3.02		
16	2.44	0.91	2.64	-0.04	2.87	-0.68	3.09	-0.82	3.01	-0.62	0.29	3.16	16
	2.31	-0.25	1.45	-0.30	1.49	0.58	1.68	0.83	2.07	0.26	0.18	2.79	
17	2.52	0.88	2.89	-0.35	3.17	-0.53	3.32	-0.78	2.79	-0.67	0.02	2.52	17
	2.77	0.46	1.63	-0.17	2.05	1.13	1.80	0.75	1.90	-0.02	0.00	3.11	
18	2.87	0.51	2.80	-0.72	3.60	-0.42	3.24	-0.76	2.53	-0.68	0.04	2.53	18
	2.62	0.03	1.26	-0.18	2.50	1.21	1.77	0.49	1.97		0.25	3.34	
19	2.61	0.07	2.47	-0.90	3.55	-0.57	3.15	-0.76	-0.07	2.33	0.13	2.51	19
	2.31	0.12	1.16	-0.05	2.28	1.04	1.89	0.35	-0.70	2.02	0.48	3.48	
20	2.74	0.04	2.68	-1.05	3.51	-0.69	3.03	-0.65	-0.41	1.96	0.02	2.29	20
	2.22	0.23	1.29	0.17	2.36	0.85	1.97		-0.77	2.19	0.60	3.44	
21	2.80	-0.25	2.67	-1.10	3.35	-0.67	0.21	2.79	-0.41	1.83	-0.16	2.14	21
	2.15	0.47	1.86	0.44	2.25		-0.69	2.06	-0.63	2.37	0.75	3.41	
22	3.04	-0.19	3.44	-0.87	0.88	3.28	0.15	2.56	-0.42	1.70	-0.09	2.24	22
	2.70		2.09		-0.56	2.27	-0.71	2.21	-0.37	2.47	1.13	3.61	
23	0.93	3.76	0.73	3.60	0.66	2.91	0.05	2.23	-0.50	1.51	-0.19	2.33	23
	-0.11	2.67	-0.77	2.19	-0.70	2.09	-0.66	2.29	-0.10	2.61	1.19	3.28	
24	0.90	3.37	0.77	3.54	0.27	2.36	-0.13	1.89	-0.48	1.56	-0.19	2.39	24
	-0.35	2.56	-0.89	1.54	-0.92	2.11	-0.63	2.38	0.55	2.91	1.17		
25	0.95	3.25	0.40	2.83	-0.05	1.90	-0.39	1.50	-0.26	1.93	3.17	-0.07	25
	-0.61	2.36	-1.24	1.68	-1.07	2.10	-0.34	2.53	1.07		2.51	1.17	
26	1.00	3.16	0.43	2.49	-0.34	1.43	-0.31	1.65	3.04	-0.35	3.05	-0.30	26
	-0.74	2.08	-1.20	1.91	-1.03		0.44		1.91	0.88	2.30	0.61	
27	0.83	2.65	0.49	2.51	2.11	-0.66	2.96	-0.24	2.90	-0.45	2.79	-0.26	27
	1.00	2.01	-0.86		1.13	-0.77	1.69	0.63	2.21	0.96	2.53	0.49	
28	0.80	2.59	2.72	0.43	2.24	-0.89	2.92	-0.49	2.97	-0.59	2.69	-0.14	28
	-0.94		2.33	-0.58	1.09	-0.23	1.63	0.78	2.20	0.67	2.67	0.28	
29	1.92	0.57	2.63	0.01	2.53	-0.91	2.97	-0.54	2.82	-0.61	2.69	-0.19	29
	2.25	-1.06	1.83	-0.76	1.32	0.35	1.73	0.86	2.22	0.55	2.51	-0.18	
30	2.09	0.30	2.52	-0.32	3.00	-0.52	2.92	-0.71	2.75	-0.56	2.33	-0.34	30
	2.37	-0.70	2.01	-0.22	1.81	0.76	1.75	0.83	2.28	0.42	2.23		
31			2.74	-0.35			2.92	-0.75	2.63	-0.49			31
			2.18	0.36			1.67	0.67	2.20	0.34			
MAXIMUM	4.24		3.60		3.60		3.32		3.43		3.64		MAXIMUM
MINIMUM	-1.06		-1.24		-1.07		-0.98		-0.77		-0.37		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 6.17 - 2/15/69

ZERO OF GAGE: 1963 TO 1964 -10.42 USCGS  
1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)  
DAILY TIDES  
895180 OLD RIVER NEAR ROCK SLOUGH  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	2.60 3.80	5.13 6.09	2.34 4.25	5.29 5.51	3.57 4.61	6.31 5.30	3.30 4.02	6.51 4.35	4.95 6.66	4.12 3.08	4.50 3.37	6.90	01
02	2.45 3.79	4.91 5.74	2.10 3.92	5.06 5.23	2.65 3.71	5.58 4.55	3.11 3.24	6.07	4.84 6.59	4.10 2.68	5.43 6.87	4.59 3.04	02
03	2.17 3.96	4.78 5.56	2.14 3.41	5.00 4.73	2.50 3.35	5.59 4.47	4.55 6.67	3.64 3.39	5.09 6.70	4.19 2.69	5.55 6.86	4.60 2.84	03
04	2.05 3.99	4.81 5.43	1.90 2.90	4.88	2.84 3.18	5.94	5.01 7.17	4.20 3.43	5.32 6.99	4.13 3.00	5.38 6.51	4.04 2.58	04
05	2.15 3.90	5.04 5.66	4.47 5.19	1.95 2.99	4.64 6.14	3.20 2.89	5.75 7.77	4.94 3.63	5.59 6.98	4.06 2.90	5.52 6.59	3.83 2.83	05
06	2.54 3.89	5.47	4.85 5.47	2.58 2.57	4.72 6.26	3.40 2.63	5.95 7.77	4.86 3.62	5.39 6.64	3.65	5.85 6.88	3.87 3.29	06
07	5.75 5.47	2.68 3.32	4.72 5.78	2.65	4.85 6.56	3.59 2.66	6.07 7.76	4.85	2.79 3.57	5.70 6.52	6.37 7.14	4.09 3.55	07
08	5.46 5.42	2.55 3.02	4.82 5.86	2.79 2.36	5.05 6.77	3.83 2.65	3.64 4.95	6.41 7.83	2.87 3.32	5.80 6.09	6.48 6.64	3.91	08
09	5.43 5.48	2.63 2.85	4.95 6.20	3.17 2.45	5.15 6.68	3.86	3.65 4.69	6.35 7.53	2.70 3.15	5.87 5.79	3.28 3.07	6.14 5.90	09
10	5.31 5.57	2.66 2.65	5.05 6.36	3.39	2.42 3.82	5.08 6.75	3.50 4.29	6.25 6.99	2.83 3.13	6.08 5.47	3.16 3.14	6.25 5.84	10
11	5.31 5.88	2.92 2.68	2.39 3.89	5.23 6.74	2.50 4.84	5.57 7.48	3.21 3.97	6.11 6.57	3.04 3.13	6.23 5.20	3.44 3.31	6.56 5.79	11
12	5.35 6.06	3.13	2.72 4.44	5.86 7.04	3.03 4.26	5.76 6.85	3.24 4.14	6.50 6.26	3.15 3.11	6.24 5.10	3.83 3.32	6.72 5.56	12
13	2.51 3.08	5.12 6.01	2.79 4.17	5.51 7.07	2.90 4.35	6.13 6.68	3.27 3.79	6.51 5.49	3.55 2.66	6.17 4.55	3.83 2.89	6.39 5.13	13
14	2.33 3.23	5.04 6.15	3.04 4.06	5.60 6.55	2.91 4.09	6.01 6.07	3.04 3.53	6.37 5.09	3.66 2.40	5.96	3.94 2.78	6.22 5.06	14
15	2.31 3.65	5.10 6.39	2.59 4.09	5.61 6.32	2.63 3.46	5.80 5.19	3.44 3.60	6.69 5.41	4.52 5.88	3.85 2.32	4.23 2.74	6.11	15
16	2.43 3.68	5.04 6.24	2.66 4.10	6.04 5.97	2.48 3.29	5.84 4.93	4.24 3.96	7.35	4.74 6.20	4.21 2.59	5.08 5.84	4.29 2.69	16
17	2.27 3.80	5.02 6.20	2.74 4.23	6.11 6.52	2.75 3.23	6.32	5.39 6.90	4.41 3.28	5.05 5.98	3.91 2.31	5.21 5.73	4.16 2.60	17
18	2.48 3.78	5.20 5.93	3.71 4.01	6.75 5.44	4.81 6.28	3.14 2.85	5.42 7.34	4.66 3.93	4.93 5.83	3.64 2.21	5.33 5.86	4.14 2.65	18
19	2.35 3.66	5.27 5.94	2.85 3.01	6.08	4.74 6.11	3.40 2.53	5.99 7.41	5.10 4.22	5.20 6.24	4.05 2.47	5.52 5.95	3.96 2.85	19
20	2.39 3.37	5.39	4.95 6.35	2.98 3.31	4.74 6.35	3.70 2.62	6.30 7.62	5.44 4.32	4.94 5.65	3.15 2.13	5.84 6.26	4.07 3.27	20
21	5.61 5.62	2.49 3.14	5.44 6.77	3.70 3.26	5.25 6.99	4.60 3.11	6.27 7.36	5.50	4.91 5.89	3.05	6.05 6.03	3.69 2.96	21
22	5.53 6.04	2.75 3.43	5.61 6.95	4.04 3.26	5.62 6.74	4.46	4.21 5.00	6.01 6.82	2.45 2.90	5.13 5.37	5.84 5.87	3.28 3.16	22
23	6.21 6.04	3.43 2.84	5.67 6.79	4.20 2.92	2.75 4.22	5.34 6.54	3.82 4.76	5.89 6.96	2.13 2.59	4.92 5.10	6.02 5.80	3.23 3.31	23
24	5.20 5.74	2.80 2.51	5.61 6.56	4.25	2.58 4.14	5.23 6.40	3.83 4.75	6.06 6.75	2.20 2.45	5.09 4.93	6.10 5.57	3.02	24
25	5.09 5.77	2.92	2.68 4.26	5.36 6.61	2.45 4.15	5.17 6.32	3.72 4.79	6.25 6.66	2.41 2.66	5.44 4.92	3.38 3.02	6.23 5.61	25
26	2.30 3.07	4.94 5.86	3.00 4.47	5.66 6.58	2.50 4.26	5.37 6.38	3.72 4.55	6.23 6.10	2.71 2.85	5.76 4.93	3.57 2.98	6.42 5.70	26
27	2.17 3.07	4.78 5.67	2.66 4.26	5.35 6.03	2.71 4.37	5.66 6.35	3.33 4.00	5.93 5.47	3.00 2.59	5.93 4.64	4.19 3.14	6.89 5.72	27
28	2.01 3.29	4.75 5.87	2.24 4.03	4.97 5.85	2.80 4.37	5.72 6.08	3.15 3.83	6.02 5.12	3.54 3.23	6.54 5.73	4.42 2.82	6.79 5.30	28
29	2.13 3.45	4.72 5.70	2.30 4.41	5.30 5.88	2.82 4.55	5.97 6.00	3.26 3.70	6.16 4.75			4.19 2.97	6.66 5.70	29
30	1.89 3.51	4.62 5.53	2.52 4.99	5.74 6.77	3.07 4.06	5.91 5.19	3.37 3.49	6.33 4.61			5.12 3.41	7.32	30
31	1.89 3.93	4.85 5.70			2.88 3.95	5.99 4.97	3.64 3.38	6.52			5.82 6.35	4.58 2.82	31
MAXIMUM	6.39		7.07		7.48		7.83		6.99		7.32		MAXIMUM
MINIMUM	1.89		1.90		2.42		3.04		2.13		2.58		MINIMUM

LOCATION: LAT. 37 59 25, LONG. 121 34 49, SW SEC. 30, T2N, R4E,  
ON AMERICAN ISLAND (FORMERLY HOLLAND TRACT), 1.2 MILES  
NORTH OF ROCK SLOUGH, 4.7 MILES NORTHEAST OF KNIGHTSEN.

PERIOD OF RECORD: MAR 1945 TO DATE

TABLE 8-12 (CONTINUED)

## DAILY TIDES

 845180 OLD RIVER NEAR ROCK SLOUGH  
 (APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	5.72	4.47	5.76	3.20	6.78	2.93	6.80	2.55	6.43	2.47	6.18	2.93	01
	6.58	3.51	5.48	2.75	5.50	3.81	5.38	4.15	5.27	3.79	5.76	3.47	
02	6.58	4.73	5.93	2.85	6.88	2.83	6.80	2.51	6.50	2.64	6.09	3.11	02
	6.81	4.04	5.29	2.86	5.60	3.91	5.42	4.25	5.57	4.02	6.01		
03	6.86	4.75	6.10	2.75	6.83	2.68	6.81	2.60	6.64	2.99	3.53	6.01	03
	6.78	4.19	5.37	3.21	5.66	4.25	5.56	4.23	5.71	3.90	3.26	6.08	
04	6.90	4.55	6.45	2.88	6.92	2.67	6.73	2.47	6.46	2.95	3.37	5.84	04
	6.69	4.25	5.63	3.52	5.62	4.18	5.37	3.97	5.70		3.30	6.09	
05	7.20	4.68	6.68	2.83	6.60	2.43	6.52	2.47	3.71	6.25	3.22	5.55	05
	7.11	4.89	5.67	3.85	5.61	4.36	5.54	4.09	2.94	5.71	3.23	6.13	
06	7.56	4.64	6.77	2.74	6.66	2.47	6.50	2.54	3.57	5.73	3.11	5.41	06
	6.69	4.54	5.59	3.91	5.63		5.56		2.66	5.66	3.38	6.17	
07	7.14	4.05	6.69	2.61	4.41	6.58	3.89	6.18	3.36	5.54	3.00	5.37	07
	6.35		5.55	4.07	2.63	5.71	2.44	5.54	2.89	5.66	3.95	6.54	
08	4.52	7.21	6.68	2.66	4.44	6.37	3.65	5.74	3.30	5.24	3.06	5.27	08
	4.02	6.74	5.68		2.35	5.79	2.27	5.56	2.82	5.95	4.28	6.70	
09	5.01	7.40	4.41	6.68	4.43	6.29	3.59	5.56	3.32	5.27	2.93	5.29	09
	4.08	6.30	2.68	5.66	2.52	5.81	2.32	5.62	3.42	6.47	4.33	6.65	
10	4.66	6.73	4.45	6.34	4.35	5.95	3.47	5.27	3.38	5.12	2.80	5.38	10
	3.30	5.60	2.32	5.41	2.60	5.95	2.47	5.78	3.73	6.64	4.34	6.68	
11	4.46	6.47	4.37	5.96	4.32	5.70	3.18	4.67	3.13	5.09	2.79	5.47	11
	3.13	5.50	2.19	5.44	2.83	6.12	2.39	5.81	4.16	6.90	3.98		
12	4.53	6.22	4.40	5.77	4.12	5.28	2.84	4.40	3.04	5.40	6.69	2.99	12
	3.08	5.44	2.40	5.50	2.87	6.21	2.72	5.94	4.55	7.04	6.00	4.38	
13	4.61	5.88	4.03	4.91	3.75	5.02	2.54	4.38	2.93	5.45	7.07	3.36	13
	2.83		2.15		3.15		3.16	6.25	4.30		6.13	4.15	
14	5.42	4.48	5.42	3.71	6.28	3.20	2.45	4.62	6.85	2.57	6.88	3.22	14
	5.58	2.75	4.73	2.44	4.79	3.30	3.67		5.26	3.96	6.09	3.66	
15	5.56	4.39	5.74	3.55	6.28	2.76	6.58	2.47	6.83	2.63	6.52	3.18	15
	5.51	2.91	4.75	2.68	4.82	3.58	4.99	4.08	5.47	3.84	6.17	3.46	
16	5.64	4.04	5.80	3.16	6.51	2.58	6.77	2.40	6.74	2.61	6.35	3.31	16
	5.33	2.88	4.54	2.92	5.04	3.82	5.13	4.11	5.52	3.51	6.29		
17	5.75	4.02	6.04	2.85	6.81	2.66	6.95	2.43	6.52	2.56	3.21	6.04	17
	5.83	3.58	4.78	3.04	5.39	4.28	5.30	3.99	5.49	3.22	3.21	6.34	
18	6.20	3.67	5.96	2.43	7.19	2.80	6.94	2.43	6.23	2.57	3.22	6.01	18
	5.66	3.14	4.71	3.11	5.68	4.43	5.32	3.76	5.67		3.44	6.57	
19	5.92	3.17	6.08	2.28	7.23	2.57	6.86	2.47	3.16	6.05	3.32	5.91	19
	5.38	3.26	4.85	3.18	5.56	4.26	5.43	3.55	2.50	5.65	3.67	6.68	
20	6.10	3.09	6.19	2.11	7.10	2.46	6.73	2.56	2.85	5.60	3.18	5.67	20
	5.48	3.36	4.86	3.34	5.53	4.07	5.60	3.43	2.49	5.82	3.81	6.63	
21	6.19	2.81	6.33	2.06	7.05	2.51	6.50	2.52	2.84	5.43	3.02	5.52	21
	5.48	3.60	5.04	3.67	5.72		5.74		2.64	6.02	3.96	6.56	
22	6.48	2.91	6.61	2.26	4.07	6.94	3.38	6.25	2.82	5.28	3.08	5.58	22
	5.78	4.09	5.26	3.96	2.65	5.82	2.54	5.89	2.89	6.12	4.27	6.45	
23	6.84	2.95	6.79	2.36	3.87	6.55	3.30	5.89	2.75	5.04	3.00	5.57	23
	5.76	4.08	5.38		2.49	5.72	2.61	6.02	3.16	6.25	4.41	6.39	
24	6.78	2.71	4.01	6.73	3.48	6.01	3.13	5.53	2.77	5.12	3.00	5.70	24
	5.65		2.16	5.23	2.31	5.72	2.66	6.13	3.70	6.94	4.39		
25	4.13	6.65	3.69	6.33	3.22	5.46	2.88	5.11	2.98	5.42	6.28	3.12	25
	2.49	5.48	1.96	5.23	2.13	5.70	2.84	6.30	4.20	6.62	5.86	4.37	
26	4.18	6.53	3.59	6.07	2.92	4.94	2.97	5.20	2.89	5.35	6.20	2.89	26
	2.35	5.18	1.99	5.48	2.20	5.83	3.58	6.68	4.07		5.67	3.84	
27	4.03	6.07	3.70	5.99	2.62	4.63	3.00	5.20	6.44	2.79	6.15	2.93	27
	2.09	5.18	2.45	5.95	2.46		3.77		5.53	4.23	5.72	3.71	
28	3.99	5.94	3.67	5.73	5.96	2.35	6.61	2.76	6.43	2.63	6.04	3.05	28
	2.15		2.69		4.59	2.95	5.17	4.05	5.43	3.95	5.85	3.50	
29	5.29	3.77	6.20	3.26	6.24	2.35	6.63	2.71	6.31	2.61	5.89	3.01	29
	5.56	2.06	5.17	2.48	4.88	3.63	5.24	4.09	5.47	3.81	5.72	3.03	
30	5.39	3.50	6.07	2.90	6.71	2.74	6.55	2.53	6.24	2.66	5.53	2.86	30
	5.46	2.43	5.16	3.02	5.39	4.08	5.28	4.07	5.50	3.66	5.65	2.81	
31			6.42	2.86			6.55	2.51	6.15	2.72			31
			5.39	3.57			5.20	3.88	5.61	3.57			
MAXIMUM	7.56		6.79		7.23		6.95		7.04		7.07		MAXIMUM
MINIMUM	2.06		1.96		2.13		2.27		2.47		2.79		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 10.0 - 12/26/55

 ZERO OF GAGE: 1945 -3.00 USCGS  
 1964 -3.58 USCGS  
 1964 TO DATE -3.00 USCGS

TABLE B-12 (CONTINUED)

## DAILY TIDES

894175 MOKELUMNE RIVER NEAR THORNTON  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	0.62 1.40	2.58 3.50	0.59 1.83	2.77 2.91	1.77 2.83	3.77 3.27	7.84A 2.47A	3.91 4.65	3.69 4.65	3.46 4.31	2.65 2.01	01	
02	0.41 1.27	2.30 3.12	0.27 1.59	2.51 2.69	3.11A 6.17A		7.52A 7.84A	3.42 3.53	3.73 4.54	3.27 4.71	2.92 4.48	02	
03	0.14 1.36	2.11 2.92	0.26 1.15	2.47 2.16	6.32A 5.34A		7.58A 6.92A	3.23 3.49	3.75 4.53	5.85A 9.43A		03	
04	0.00 1.38	2.18 2.75	0.02 0.75	2.40	4.38 3.94	4.85	6.99A 6.45A	3.06 3.37	3.76 4.66	9.43A 8.73A		04	
05	0.05 1.36	2.42	1.90 2.73	0.04 0.94	4.02 4.34	3.42	6.41A 7.01A	3.13 3.03	3.76 4.24	8.72A 8.02A		05	
06	3.02 2.96	0.45 1.48	2.36 3.03	0.68 0.65	3.04 2.80	3.40 4.17	6.65A 7.44A	2.28 2.24	3.25 4.08	8.01A 7.57A		06	
07	3.15 2.96	0.61 1.18	2.22 3.28	0.65	2.46 2.58	3.18 4.25	7.29A 9.30A	1.91 2.17	3.41 4.00	7.56A 7.27A		07	
08	2.97 2.93	0.58 0.90	0.69 0.85	2.37 3.43	2.24 2.56	3.17 4.34	9.35A 8.55A	1.79 1.97	3.45 3.65	7.02A 7.38A		08	
09	2.88 2.89	0.56 0.72	0.69 1.26	2.49 3.74	2.14 2.49	3.15 4.24	8.53A 7.40A	1.54 1.75	3.48 3.40	7.71A 7.36A		09	
10	2.76 3.03	0.61	0.95 1.43	2.61 3.89	1.84 2.33	3.01 4.24	7.37A 6.08A	1.47 1.66	3.62 3.10	7.35A 6.74A		10	
11	0.61 0.84	2.76 3.34	0.97 1.93	2.84 4.03	1.83 3.00	3.42 4.80	5.57 5.25	5.74 5.63	1.46 1.61	3.74 2.84	6.51 5.95	6.74 6.07	11
12	0.72 1.03	2.82 3.51	0.95 2.41	3.37 4.43	2.31 2.25	3.50 4.31	4.93 4.95	5.40 5.81	1.43 1.53	3.73 2.75	5.85 5.75	6.26 5.90	12
13	0.63 0.92	2.58 3.46	2.91A 5.62A		2.09 2.80	3.77 4.16	4.83 5.09	5.42 5.27	1.64 1.14	3.65	5.74 6.02	6.26 6.20	13
14	0.42 1.05	2.49 3.62	5.33A 6.16A		2.32 3.51	3.98 4.31	4.88 4.94	5.42 5.03	2.28 3.46	1.66 0.66	6.08 5.65	6.33	14
15	0.44 1.31	2.56 3.77	5.90A 6.46A		3.36 3.57	4.23 3.92	4.68 5.04	5.43	2.08 3.32	1.51 0.42	5.51 5.12	5.80	15
16	0.50 1.27	2.44 3.61	6.14 6.12	6.33 6.23	2.83 2.79	3.97 3.28	5.40A 6.64A	2.26 3.60	1.73 0.64	5.27 5.40	5.14 4.83		16
17	0.35 1.40	2.44 3.61	5.88A 6.47A		2.15 2.34	4.07	6.34 6.57	6.17 6.36	2.49 3.42	1.55	5.08 5.23	4.94 4.69	17
18	0.54 1.39	2.60 3.33	6.37A 6.81A		2.92 3.93	1.99 2.16	6.42A 8.86A	0.52 1.39	2.44 3.29	5.01 5.17	4.86		18
19	0.38 1.28	2.69 3.30	6.83A 7.32A		2.94 3.89	2.31 1.97	8.73A 9.12A	0.41 1.69	2.73 3.58	4.63 4.74	5.00 5.11		19
20	0.28 0.94	2.77	7.22A 6.78A		2.88 3.98	2.32	9.00A 9.20A	0.62 1.21	2.47 3.20	4.52 4.44	4.92 4.79		20
21	2.98 3.03	0.30 0.79	6.78A 5.70A		1.86 2.83	3.18 4.51	9.02A 8.54A	0.96 1.48	2.66 3.45	3.93 3.89	4.54 4.46		21
22	2.91 3.44	0.55 1.33	5.70A 4.88A		2.40 3.06	3.52 4.50	8.53A 8.02A	1.06 1.17	2.74 2.89	3.56 3.23	4.22 3.94		22
23	3.61 3.42	1.23	4.64 4.51	4.84 5.14	3.65A 5.49A		8.00A 7.55A	0.77 1.14	2.65 2.80	2.77 2.76	3.95 3.78		23
24	0.65 0.56	2.58 3.16	4.16 3.73	4.43 4.40	4.88 4.76	5.07 5.19	7.54A 6.96A	0.90 0.97	2.77 2.57	2.68 2.52	3.97 3.57		24
25	0.39 0.73	2.54 3.25	2.37 2.88	3.39 4.33	4.00 3.91	4.26 4.57	6.61 6.46	6.72 6.93	0.82 0.98	2.99 2.54	2.53 2.46	3.99 3.57	25
26	0.33 0.79	2.39 3.30	2.33 2.91	3.50 4.19	3.16 3.44	3.82 4.35	6.14 6.02	6.32 6.14	0.89 1.03	3.23 2.50	2.62 2.45	4.09 3.64	26
27	0.17 0.76	2.23 3.14	1.88 2.30	3.09 3.52	2.98 3.68	3.96	5.69 5.62	5.92 5.72	1.00 0.76	3.37 2.24	2.97 2.73	4.45 3.74	27
28	0.12 1.01	2.25 3.30	0.76 1.82	2.55 3.31	4.86A 8.82A		5.36 5.37	5.67 5.43	1.38 1.81	3.95	3.22 2.74	4.44 3.60	28
29	0.10 0.96	2.09 3.12	0.60 2.05	2.80 3.31	9.09A 8.56A		5.12 5.17	5.55		3.37 3.82	4.67		29
30	0.19 1.27	2.07 3.10	0.68 2.65	3.23 4.22	0.33A 8.77A		5.20A 4.15A			4.45 5.42	4.39 4.67		30
31	0.40 1.67	2.31 3.17			8.73A 6.88A		3.68A 4.65A			4.92A 6.22A			31
MAXIMUM	3.77		7.32		9.09		9.35		4.66		9.43		MAXIMUM
MINIMUM	0.00		0.02		0.33		2.47		0.41		2.01		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

LOCATION: LAT. 38 15 20, LONG. 121 26 21, NW SEC. 28 T5N, R5E,  
AT HIGHWAY BRIDGE, 2.3 MILES NORTHWEST OF THORNTON.  
AT TIMES, TIDAL FLUCTUATION IS INFLUENCED BY OPERATION  
OF THE DELTA CROSS CHANNEL GATES.

PERIOD OF RECORD: FEB 1959 TO DATE

TABLE B-12 (CONTINUED)

## DAILY TIDES

894175 MORELUMNE RIVER NEAR THORNTON  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	6.25A	7.12A	3.79 3.59	2.68 2.26	4.99 4.47	4.16 4.24	4.20 2.93	0.60 1.75	1.07 0.56	3.64 2.78	1.56 1.16	3.69 3.33	01
02	6.90A	9.20A	3.81 3.45	2.45 2.38	5.15 4.63	4.31 4.40	4.18 2.88	0.46 1.75	1.50 0.74	3.89 3.09	1.50 1.30	3.60 3.54	02
03	9.50A	9.13A	3.93 3.57	2.54 2.70	5.22 4.69	4.37 4.51	4.14 3.02	0.58	1.69 1.02	4.00 3.25	1.60 1.39	3.51 3.63	03
04	9.13A	8.40A	4.24 3.80	3.07 3.20	5.27 4.65	4.35	1.75 0.48	4.06 2.87	1.65 1.01	3.88 3.28	1.47 1.35	3.35 3.58	04
05	8.46A	7.96A	4.57 3.87	3.07	4.41 3.89	5.02 4.29	1.56 0.52	3.94 3.12	1.57 0.39	3.78 2.99	1.30 1.29	3.05 3.64	05
06	7.91 7.56	8.05 7.59	3.30 2.97	4.57 3.80	4.02 2.98	4.73 3.83	1.74 0.56	3.90 3.10	0.80 0.01	3.01 2.95	1.28 1.44	2.91 3.72	06
07	7.16 6.79	7.32 6.88	3.14 2.64	4.46 3.65	3.44 1.90	4.36 3.43	1.53 0.47	3.65 3.02	0.63 0.22	2.83 3.11	1.23 1.85	2.90 4.00	07
08	6.54 6.28	6.85 6.53	3.11 2.65	4.43 3.76	2.75 1.65	3.99 3.57	1.32 0.34	3.20 3.10	0.95 0.12	2.53 3.21	1.32 2.06	2.77 4.11	08
09	6.25 6.09	6.63 6.25	3.38 3.17	4.52 4.06	2.84 1.67	3.92 3.56	1.40 0.66	3.09 3.26	0.58 1.19	2.87 3.92	1.23 2.12	2.77 4.07	09
10	6.00 5.89	6.30 6.05	3.76 3.04	4.44 3.85	2.69 1.56	3.59	1.65 1.26	2.94 3.54	1.35 1.45	2.60 4.05	1.16 2.13	2.88	10
11	5.93 5.70	6.21 5.83	3.57 2.67	4.15	3.65 3.36	2.62 1.57	1.82 1.05	2.44 3.53	1.15 1.82	2.56	4.09 2.95	1.12 1.94	11
12	5.62 4.96	5.78	3.77 4.05	3.55 2.75	3.74 2.92	2.37 1.48	1.33 1.03	2.06	4.29 2.42	1.20 2.17	4.14 3.56	1.39 2.34	12
13	5.16 5.20	5.00 4.43	3.83 2.38	3.37	3.78 2.67	2.12 1.56	3.59 1.98	0.97 1.19	4.40 2.97	1.13 1.96	4.49 3.69	1.80 2.25	13
14	4.74 4.75	4.55 4.08	3.69 3.36	3.13 2.48	3.87 2.52	1.79 1.73	3.81 2.17	0.85 1.95	4.22 2.80	0.79 1.69	4.33 3.67	1.69	14
15	4.60 4.60	4.38 3.91	3.89 3.30	3.08 2.45	3.94 2.67	1.64 2.02	4.10 2.62	0.89 1.87	4.23 3.04	0.89 1.68	1.38 1.59	4.02 3.73	15
16	4.47 4.36	4.12 3.75	3.86 3.04	2.75 2.42	4.13 2.87	1.65 2.28	4.21 2.67	0.73 1.84	4.20 3.10	0.94	1.73 1.66	3.85 3.84	16
17	4.43 4.54	4.06 3.98	3.94 3.11	2.50 2.40	4.42 3.14	1.81 2.60	4.34 2.90	0.72 1.81	1.48 0.89	4.00 3.14	1.55 1.52	3.62 3.86	17
18	4.65 4.40	4.02 3.77	3.84 3.03	2.23 2.40	4.68 3.21	1.55 2.24	4.34 2.89	0.73	1.33 0.90	3.78 3.37	1.52 1.67	3.53 4.04	18
19	4.46 4.24	3.77 3.74	3.96 3.13	2.17 2.55	4.66 3.16	1.31	1.59 0.70	4.24 2.95	1.32 0.80	3.62 3.25	1.62 1.32	3.44 4.15	19
20	4.55 4.22	3.74	4.07 3.11	2.11 2.53	2.16 1.14	4.55 3.15	1.92 0.80	4.15 3.17	1.01 0.69	3.17 3.41	1.53 1.88	3.20 4.09	20
21	3.68 3.57	4.52 4.13	4.18 3.14	2.00	2.04 1.29	4.54 3.35	1.40 0.75	3.95 3.35	1.01 0.82	3.00 3.57	1.35 1.84	3.02 3.93	21
22	3.64 3.48	4.60 4.19	2.67 1.85	4.33 3.16	2.15 1.24	4.43 3.43	1.33 0.69	3.73 3.44	1.02 0.98	2.84 3.67	1.25 2.01	3.02 3.83	22
23	3.73 3.33	4.71 4.04	2.57 1.80	4.33 3.22	1.91 1.03	4.11 3.37	1.22 0.60	3.48 3.04	0.95 1.12	2.58 3.76	1.15 2.07	2.99 3.71	23
24	3.50 3.29	4.61 4.07	2.52 1.55	4.33 3.07	1.56 0.72	3.60 3.37	1.03 0.55	3.01 3.10	0.96 1.54	2.64	1.10 2.05	3.12	24
25	3.70 3.56	4.69 4.19	2.17 1.25	3.95 3.03	1.34 0.39	3.07	0.78 0.62	2.56	4.00 2.93	1.16 1.95	3.70 3.33	1.24 2.11	25
26	3.92 3.57	4.76 4.03	2.13 1.26	3.74 3.30	3.26 2.45	0.82 0.24	3.74 2.68	0.85 1.24	4.00 2.87	1.13 1.83	3.62 3.15	1.06 1.71	26
27	3.71 3.14	4.41	2.30 1.61	3.70	3.38 2.11	0.59 0.30	4.04 2.66	0.93 1.39	3.88 3.07	1.05 1.97	3.58 3.17	1.10 1.59	27
28	3.84 4.12	3.49 2.74	3.70 3.60	2.58 2.18	3.46 2.08	0.36 0.66	3.99 2.57	0.74 1.18	3.87 3.00	0.96 1.80	3.44 3.34	1.20	28
29	3.74 3.86	3.20 2.36	4.10 3.68	3.02 2.92	3.72 2.40	0.40 1.28	3.79 2.56	0.05 1.23	3.75 3.04	0.93 1.69	1.50 1.16	3.34 3.21	29
30	3.60 3.66	2.80 2.31	4.39 4.02	3.65 3.63	4.09 2.94	0.85 1.75	3.73 2.57	-0.16 1.22	3.73 3.06	1.00	1.13 0.99	3.02 3.15	30
31			4.70 4.22	3.85 3.90			3.72 2.50	-0.17	1.60 1.05	3.68 3.16			31
MAXIMUM	9.50		4.70		5.27		4.34		4.40		4.49		MAXIMUM
MINIMUM	2.31		1.25		0.24		-0.17		0.01		0.99		MINIMUM

A - HIGH FLOWS AFFECTED THE NORMAL TIDAL PATTERN

MAXIMUM GAGE HEIGHT OF RECORD: 14.5 - 2/2/63

ZERO OF GAGE: 1959 0.40 USCGS  
1964 -0.48 USCGS  
1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

B94150 MOKELUMNE RIVER, SOUTH FORK, AT NEW HOPE BRIDGE  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	0.34 1.23	2.53 3.50	0.13 1.59	2.69 2.85	1.02 1.91	3.67 2.68	1.45 1.71	3.92 1.98	2.33 4.08	1.52 0.66	1.84 0.80	4.22	01
02	0.16 1.13	2.26 3.10	-0.17 1.34	2.43 2.62	0.19 1.36	3.03 2.08	1.08 1.42	3.67 1.42	2.23 3.97	1.44 0.33	2.88 4.36	1.84 0.79	02
03	-0.12 1.28	2.08 2.90	-0.15 0.86	2.39 2.09	0.47 1.10	3.18 1.95	2.28 4.30	1.63 1.43	2.49 4.10	1.54 0.34	3.13 4.40	2.37 2.02	03
04	-0.24 1.31	2.14 2.74	-0.39 0.42	2.32	0.50 0.76	3.45	2.52 4.68	1.86 1.39	2.74 4.39	1.48	3.48 4.33	2.68 1.69	04
05	-0.18 1.26	2.39 3.00	1.84 2.65	-0.35 0.59	2.06 3.59	0.67 0.46	3.27 5.26	2.51	0.60 1.17	2.87 3.99	3.34 4.24	2.11 1.41	05
06	0.22 1.32	2.94	2.27 2.95	0.26 0.25	2.14 3.70	0.79 0.22	1.69 2.52	3.44 5.27	0.33 0.80	2.68 3.91	3.52 4.53	1.98	06
07	3.13 2.92	0.37 0.91	2.14 3.24	0.29 0.27	2.27 3.96	0.94	1.75 2.58	3.58 5.23	0.33 0.94	3.08 3.86	1.61 2.14	3.98 4.64	07
08	2.92 2.87	0.25 0.61	2.29 3.36	0.43 0.21	0.22 1.15	2.47 4.15	2.40 3.28	4.22 5.44	0.37 0.72	3.18 3.45	1.70 1.73	4.04 4.22	08
09	2.83 2.85	0.26 0.45	2.39 3.69	0.83	0.24 1.17	2.55 4.06	2.33 2.68	3.96 5.09	0.19 0.56	3.25 3.18	1.53 1.35	3.84 3.55	09
10	2.70 2.99	0.32 0.32	0.41 1.06	2.52 3.89	0.01 1.11	2.47 4.09	1.77 2.08	3.76 4.49	0.26 0.54	3.45 2.84	1.35 1.31	3.92 3.44	10
11	2.72 3.33	0.56	0.47 1.62	2.76 4.03	0.12 2.06	3.03 4.74	1.18 1.64	3.60 4.01	0.39 0.54	3.61 2.57	1.42 1.33	4.13 3.37	11
12	0.43 0.75	2.78 3.49	0.22 1.75	3.28 4.34	0.62 1.55	3.15 4.18	1.08 1.78	3.98 3.69	0.46 0.51	3.61 2.47	1.59 1.23	4.24 3.69	12
13	0.29 0.66	2.54 3.46	0.41 1.63	2.99 4.57	0.51 1.67	3.51 3.99	1.01 1.45	3.97 2.96	0.79 0.02	3.50	1.55 0.89	3.89 2.70	13
14	0.08 0.78	2.44 3.61	0.87 1.63	3.12 4.04	0.45 1.44	3.44 3.46	0.80 1.21	3.89	1.89 3.31	0.85 -0.26	1.63 0.77	3.71	14
15	0.09 1.09	2.52 3.81	0.58 1.74	3.18 3.83	0.28 0.96	3.25 2.60	2.54 4.14	1.05 1.28	1.83 3.21	0.98 -0.36	2.58 3.56	1.77 0.60	15
16	0.17 1.09	2.40 3.62	0.80 1.86	3.71 3.50	0.02 0.72	3.29 2.33	2.86 4.82	1.85 1.89	2.09 3.54	1.34 -0.06	2.59 3.29	1.78 0.48	16
17	0.03 1.23	2.40 3.61	0.69 2.02	3.79 4.11	0.23 0.64	3.75	2.87 4.40	2.07 1.34	2.36 3.33	1.07 -0.30	2.71 3.18	1.65 0.38	17
18	0.25 1.25	2.56 3.31	1.60 1.84	4.29	2.18 3.62	0.46 0.31	2.99 4.96	2.54 2.56	2.28 3.20	0.83 -0.37	2.82 3.23	1.63 0.44	18
19	0.12 1.14	2.66 3.30	3.02 3.62	0.90 1.11	2.09 3.49	0.71 0.01	3.80 5.08	3.24 2.90	2.60 3.53	1.19	3.02 3.39	1.48 0.61	19
20	0.09 0.83	2.77	2.57 4.03	1.06 1.32	2.14 3.70	0.95 0.08	4.12 5.24	3.56 2.95	-0.16 0.36	2.29 2.98	3.35 3.71	1.55 0.93	20
21	2.98 3.03	0.12 0.66	3.02 4.32	1.51	2.67 4.39	1.79	4.01 4.87	3.38	-0.42 0.41	2.31 3.27	3.53 3.47	1.24	21
22	2.92 3.47	0.38 1.16	1.14 1.62	3.12 4.41	0.64 1.70	3.00 4.10	2.61 2.96	3.72 4.40	-0.11 0.18	2.49 2.67	0.65 0.84	3.34 3.34	22
23	3.65 3.43	1.05 0.49	0.99 1.67	3.13 4.22	0.39 1.62	2.77 3.99	2.09 2.64	3.49 4.54	-0.46 -0.11	2.32 2.49	0.72 0.76	3.46 3.23	23
24	2.57 3.17	0.39 0.21	0.69 1.55	3.07 3.88	0.43 1.60	2.72 3.87	1.96 2.54	3.61 4.29	-0.40 -0.19	2.49 2.30	0.82 0.56	3.58 3.00	24
25	2.48 3.21	0.49	0.24 1.57	2.78 4.07	0.27 1.52	2.66 3.76	1.71 2.45	3.78 4.13	-0.25 0.02	2.80 2.33	0.82 0.56	3.66 3.03	25
26	0.07 0.59	2.35 3.29	0.52 1.75	3.05 3.94	0.18 1.61	2.81 3.85	1.60 2.00	3.74 3.54	0.03 0.20	3.10 2.33	0.97 0.57	3.81 3.15	26
27	-0.05 0.59	2.18 3.11	0.19 1.48	2.75 3.37	0.51 1.78	3.17 3.78	1.16 1.66	3.44 2.99	0.27 -0.07	3.27 2.03	1.55 0.82	4.27 3.25	27
28	-0.21 0.79	2.17 3.26	-0.32 1.22	2.35 3.18	0.63 2.11	3.28 3.67	0.93 1.46	3.48 2.62	0.75 0.86	3.90 3.25	1.86 0.42	4.21 2.71	28
29	-0.25 0.74	2.04 3.05	-0.28 1.59	2.66 3.22	1.41 2.95	3.80 3.80	0.94 1.33	3.61 2.22			1.53 0.74	4.10 3.18	29
30	-0.32 0.92	1.99 2.94	-0.08 2.31	3.14 4.15	1.62 2.27	3.52 3.05	0.97 1.06	3.76 2.03			2.52 1.22	4.80	30
31	-0.27 1.32	2.21 3.07			1.53 2.13	3.68 2.71	1.07 0.93	3.90			3.28 3.86	2.11 0.82	31
MAXIMUM	3.81		4.57		4.74		5.44		4.39		4.80		MAXIMUM
MINIMUM	-0.32		-0.39		0.01		0.80		-0.46		0.38		MINIMUM

LOCATION: LAT. 38 13 33, LONG. 121 29 24, NW SEC. 1, T4N, R4E,  
SOUTH OF WALNUT GROVE-THORNTON HIGHWAY BRIDGE, 3.8 MILES  
WEST OF THORNTON. AT TIMES, TIDAL FLUCTUATION IS  
INFLUENCED BY OPERATION OF THE DELTA CROSS CHANNEL GATES.

PERIOD OF RECORD: AUG 1920 TO DATE

TABLE 8-12 (CONTINUED)

## DAILY TIDES

B94150 MOKELEUMNE RIVER, SOUTH FORK, AT NEW HOPE BRIDGE  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	3.37 4.26	2.35 1.67	3.17 2.90	0.67 0.21	4.45 3.15	1.35 1.87	4.26 2.86	0.41 1.66	3.64 2.74	0.39 1.40	3.68 3.28	0.88	01
02	4.17 4.43	2.64 2.52	3.32 2.70	0.31 0.30	4.51 3.28	1.29 1.99	4.26 2.83	0.24 1.68	3.96 3.07	0.53 1.60	1.27 1.02	3.57 3.49	02
03	4.61 4.61	3.32 2.94	3.47 2.80	0.24 0.63	4.48 3.35	1.27 2.28	4.25 2.97	0.40 1.71	4.11 3.22	0.85	1.35 1.13	3.47 3.60	03
04	4.63 4.36	2.98 2.58	3.84 3.24	1.20 1.59	4.55 3.27	1.26 2.17	4.16 2.82	0.29 1.47	1.52 0.80	3.94 3.25	1.24 1.11	3.30 3.55	04
05	4.85 4.75	2.90	4.33 3.29	1.13 1.78	4.22 3.26	1.08	3.98 3.05	0.28	1.38 0.21	3.74 2.95	1.04 1.05	3.00 3.60	05
06	3.00 2.67	5.17 4.16	4.31 3.23	1.03 1.78	2.31 0.89	4.23 3.23	1.64 0.35	3.95 3.04	0.68 -0.14	2.98 2.91	1.03 1.22	2.86 3.70	06
07	2.44 2.02	4.71 3.91	4.25 3.10	0.82	2.24 0.71	4.11 3.17	1.43 0.26	3.64 2.98	0.51 0.07	2.78 3.04	0.96 1.67	2.83 4.01	07
08	2.30 1.99	4.76 4.32	1.81 0.93	4.22 3.29	2.06 0.58	3.83 3.35	1.19 0.10	3.17 3.04	0.45 -0.02	2.49 3.20	1.07 1.92	2.73 4.13	08
09	2.71 1.95	4.92 3.78	2.24 1.12	4.25 3.36	2.17 0.70	3.75 3.35	1.20 0.26	3.03 3.19	0.46 1.06	2.88 3.99	0.95 1.96	2.72 4.08	09
10	2.31 1.27	4.20 3.12	2.36 0.81	3.89 3.05	2.07 0.67	3.40 3.49	1.28 0.53	2.83 3.40	1.19 1.33	2.56 4.11	0.86 1.97	2.82 4.09	10
11	2.06 1.03	3.93 2.98	2.21 0.64	3.51 3.09	2.02 0.82	3.16 3.63	1.14 0.43	2.21 3.43	0.98 1.72	2.52 4.36	0.79 1.75	2.90	11
12	2.05 0.72	3.56 2.88	2.30 0.89	3.44 3.20	1.86 0.79	2.72 3.70	0.86 0.64	1.94 3.51	0.99 2.08	2.88 4.46	4.17 3.50	1.06 2.14	12
13	1.99 0.52	3.26	2.06 0.66	2.63	1.60 0.96	2.48	0.60 0.93	1.91 3.79	0.90 1.88	2.93	4.57 3.63	1.44 1.98	13
14	2.83 2.96	1.87 0.40	3.09 2.49	1.80 0.93	3.81 2.23	1.11 1.05	0.51 1.35	2.10	4.29 2.76	0.57 1.59	4.37 3.61	1.31 1.58	14
15	3.00 2.90	1.84 0.50	3.45 2.51	1.75 1.06	3.86 2.40	0.82 1.37	4.12 2.55	0.57 1.73	4.31 2.99	0.68 1.55	4.03 3.70	1.22	15
16	3.04 2.74	1.46 0.46	3.46 2.26	1.39 1.18	4.05 2.60	0.77 1.58	4.26 2.63	0.47 1.72	4.28 3.05	0.68 1.30	1.40 1.28	3.85 3.83	16
17	3.17 3.29	1.49 1.20	3.65 2.46	1.12 1.18	4.35 2.90	0.87 1.95	4.43 2.83	0.50 1.68	4.04 3.08	0.62 1.09	1.21 1.19	3.59 3.86	17
18	3.64 3.02	1.25 0.72	3.56 2.44	0.84 1.27	4.68 3.16	0.91 1.96	4.44 2.84	0.49 1.48	3.79 3.33	0.63	1.20 1.36	3.50 4.06	18
19	3.37 2.83	0.74 0.84	3.75 2.62	0.80 1.45	4.74 3.09	0.71 1.86	4.35 2.91	0.49 1.28	1.10 0.51	3.61 3.21	1.31 1.52	3.42 4.19	19
20	3.58 2.90	0.61 0.91	3.84 2.63	0.72 1.53	4.58 3.07	0.58 1.75	4.24 3.12	0.56	0.75 0.46	3.13 3.38	1.18 1.57	3.15 4.09	20
21	3.68 2.94	0.46 1.08	4.01 2.73	0.70 1.73	4.58 3.25	0.69	1.22 0.50	4.01 3.32	0.78 0.58	2.96 3.56	1.00 1.61	2.98 3.95	21
22	3.93 3.26	0.58	4.20 2.93	0.79	1.83 0.81	4.46 3.41	1.16 0.47	3.74 3.43	0.78 0.75	2.78 3.66	0.96 1.85	2.98 3.85	22
23	1.54 0.61	4.22 3.20	1.92 0.82	4.34 3.02	1.68 0.62	4.09 3.29	1.07 0.43	3.38 3.55	0.71 0.92	2.51 3.77	0.87 1.91	2.97 3.74	23
24	1.46 0.42	4.19 3.06	1.89 0.59	4.23 2.87	1.28 0.36	3.54 3.29	0.88 0.42	2.99 3.63	0.72 1.40	2.59 4.04	0.83 1.92	3.11	24
25	1.50 0.21	4.07 2.91	1.52 0.31	3.87 2.83	1.07 0.09	3.01 3.22	0.66 0.53	2.53 3.81	0.94 1.82	2.93 4.04	3.68 3.31	1.00 1.95	25
26	1.53 0.06	3.96 2.61	1.49 0.36	3.63 3.12	0.67 0.00	2.40 3.35	0.76 1.19	2.66 4.17	0.87 1.70	2.80	3.62 3.12	0.79 1.50	26
27	1.34 -0.21	3.48 2.59	1.59 0.72	3.56 3.53	0.41 0.14	2.05	0.85 1.34	2.64	3.91 3.01	0.80 1.85	3.57 3.16	0.80 1.36	27
28	1.27 -0.32	3.19	1.69 1.00	3.31	3.47 2.01	0.16 0.50	4.10 2.37	0.60 1.16	3.91 2.94	0.71 1.66	3.44 3.32	0.89 1.23	28
29	2.70 2.93	1.02 -0.38	3.81 2.79	1.43 0.80	3.72 2.33	0.17 1.15	3.83 2.51	-0.07 4.21	3.77 2.97	0.67 1.54	3.34 3.19	0.85 0.82	29
30	2.81 2.85	0.82 -0.07	3.74 2.79	1.20 1.21	4.17 2.87	0.59 1.61	3.76 2.54	-0.23 1.19	3.73 3.00	0.73 1.43	2.99 3.12	0.67	30
31			4.07 3.02	1.24 1.65			3.76 2.48	-0.25 1.01	3.67 3.10	0.75 1.35			31
MAXIMUM		5.17	4.34		4.74		4.44		4.46		4.57		MAXIMUM
MINIMUM		-0.38	0.21		0.00		-0.25		-0.14		0.67		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 13.3 - 12/25/55

ZERO OF GAGE: 1920 TO 1940 0.26 USED  
1940 0.00 USCGS  
1964 -0.62 USCGS  
1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

894120 LITTLE POTATO SLOUGH AT TERMINOUS  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	-0.29 0.85	2.36 3.34	-0.46 1.29	2.54 2.69	0.80 1.78	3.56 2.51	0.61 1.06	3.70 1.50	2.14 3.94	1.34 0.31	1.65 0.56	4.14	01
02	-0.44 0.82	2.13 2.97	-0.79 1.01	2.28 2.45	-0.13 0.93	2.83 1.78	0.31 0.52	3.33	2.04 3.83	1.27 -0.08	NR NR	NR NR	02
03	-0.73 1.00	1.96 2.77	-0.74 0.46	2.24 1.93	-0.23 0.55	2.91 1.68	1.81 4.00	0.92 0.63	2.30 3.96	1.37 -0.07	2.81 4.09	1.75 0.22	03
04	-0.84 1.03	2.01 2.61	-0.99 -0.03	2.15	0.08 0.39	3.25	2.19 4.46	1.40 0.67	2.55 4.28	1.30 0.21	2.66 3.81	1.34 0.03	04
05	-0.74 0.95	2.26 2.87	1.67 2.45	-0.93 0.08	1.84 3.43	0.40 0.11	2.98 5.04	2.12 0.88	2.75 4.10	1.09	2.83 3.89	1.11 0.18	05
06	-0.35 0.94	2.77	2.09 2.74	-0.31 -0.34	1.95 3.55	-0.58 -0.14	3.16 5.04	2.05	0.05 0.70	2.55 3.85	3.14 4.21	1.13 0.60	06
07	2.99 2.75	-0.21 0.42	1.95 3.05	-0.25 -0.37	2.09 3.85	0.75 -0.13	0.85 2.01	3.26 4.97	0.01 0.74	2.94 3.78	3.66 4.40	1.36	07
08	2.74 2.69	-0.34 0.13	2.08 3.16	-0.13 -0.51	2.28 4.06	0.98	0.93 2.17	3.67 5.12	0.08 0.50	3.06 3.34	0.83 1.04	3.75 3.93	08
09	2.69 2.72	-0.29 -0.06	2.19 3.49	0.26 -0.40	-0.13 1.01	2.38 3.98	0.96 1.90	3.60 4.81	-0.09 0.34	3.13 3.05	0.61 0.38	3.49 3.19	09
10	2.55 2.83	-0.24 -0.25	2.28 3.68	0.45	-0.36 0.95	2.30 4.02	0.78 1.48	3.46 4.25	0.02 0.31	3.35 2.71	0.46 0.44	3.61 3.11	10
11	2.54 3.14	0.02 -0.21	-0.46 1.01	2.50 4.02	-0.25 1.95	2.84 4.74	0.44 1.14	3.36 3.80	0.20 0.26	3.53 2.42	0.70 0.59	3.86 3.08	11
12	2.60 3.32	0.22	-0.10 1.56	3.16 4.29	0.23 1.38	2.99 4.11	0.47 1.32	3.76 3.48	0.30 0.30	3.52 2.33	1.08 0.59	4.01 2.82	12
13	-0.37 0.17	2.35 3.29	-0.03 1.30	2.78 4.38	0.13 1.50	3.39 3.91	0.48 0.97	3.75 2.70	0.69 -0.19	3.41 1.74	1.09 0.19	3.66 2.38	13
14	-0.57 0.32	2.27 3.46	0.24 1.21	2.86 3.82	0.11 1.22	3.27 3.29	0.24 0.72	3.64 2.28	0.77 -0.45	3.19	1.17 0.11	3.48 2.30	14
15	-0.57 0.69	2.36 3.67	-0.17 1.26	2.90 3.59	-0.17 0.65	3.06 2.42	0.63 0.80	3.94	1.70 3.10	0.92 -0.54	1.42 0.03	3.34	15
16	-0.47 0.73	2.24 3.48	-0.05 1.33	3.37 3.24	-0.34 0.46	3.11 2.14	2.61 4.59	1.46 1.21	1.95 3.45	1.28 -0.23	2.35 3.09	1.48 -0.05	16
17	-0.63 0.83	2.23 3.47	0.00 1.48	3.43 3.85	-0.05 0.38	3.62	2.59 4.18	1.61 0.57	2.24 3.26	0.99 -0.52	2.48 2.97	1.34 -0.14	17
18	-0.42 0.85	2.42 3.17	0.98 1.23	4.08 2.72	2.01 3.51	0.28 0.02	2.63 4.62	1.96 1.27	2.15 3.09	0.73 -0.61	2.60 3.06	1.34 -0.06	18
19	-0.54 0.73	2.50 3.16	0.13 0.29	3.33	1.93 3.34	0.54 -0.31	3.24 4.71	2.36 1.59	2.46 3.48	1.14 -0.37	2.80 3.21	1.16 0.12	19
20	-0.49 0.44	2.63	2.21 3.68	0.28 0.58	1.96 3.58	0.81 -0.22	3.58 4.90	2.70	2.17 2.87	0.26 -0.69	3.12 3.53	1.26 0.53	20
21	2.85 2.89	-0.42 0.22	2.70 4.07	0.96 0.52	2.48 4.28	1.68 0.28	1.67 2.62	3.48 4.58	2.16 3.16	0.22	3.33 3.29	0.94 0.23	21
22	2.78 3.32	-0.13 0.65	2.87 4.23	1.25 0.48	2.83 3.98	1.57	1.56 2.22	3.28 4.09	-0.36 0.05	2.36 2.57	3.13 3.15	0.52 0.43	22
23	3.48 3.28	0.55 -0.06	2.93 4.05	1.38	-0.05 1.35	2.56 3.80	1.13 2.02	3.13 4.23	-0.69 -0.29	2.18 2.35	3.30 3.06	0.46	23
24	2.42 3.00	-0.11 -0.38	0.18 1.36	2.88 3.79	-0.20 1.29	2.48 3.67	1.10 1.99	3.29 4.02	-0.64 -0.40	2.36 2.17	0.55 0.26	3.43 2.83	24
25	2.31 3.04	0.00	-0.11 1.40	2.61 3.92	-0.29 1.29	2.44 3.59	0.99 1.98	3.50 3.89	-0.43 -0.17	2.68 2.20	0.60 0.26	3.52 2.86	25
26	-0.58 0.12	2.17 3.12	0.20 1.63	2.89 3.84	-0.27 1.42	2.62 3.64	0.97 1.62	3.49 3.29	-0.13 0.01	3.01 2.19	0.77 0.23	3.69 2.97	26
27	-0.71 0.14	2.01 2.94	-0.12 1.38	2.60 3.26	0.00 1.55	2.95 3.59	0.57 1.21	3.19 2.70	0.14 -0.25	3.18 1.90	1.38 0.44	4.19 3.03	27
28	-0.88 0.37	2.00 3.12	-0.55 1.14	2.21 3.06	0.04 1.56	3.00 3.32	0.41 1.03	3.26 2.34	0.66 0.52	3.80 3.01	1.61 0.02	4.06 2.51	28
29	-0.88 0.40	1.91 2.91	-0.49 1.53	2.54 3.10	0.13 1.86	3.26 3.26	0.49 0.91	3.40 1.97			1.35 0.28	3.92 2.98	29
30	-0.98 0.56	1.82 2.77	-0.27 2.20	2.97 4.05	0.36 1.31	3.12 2.45	0.58 0.69	3.57 1.80			2.31 0.71	4.62	30
31	-0.98 0.99	2.06 2.92			0.22 1.21	3.27 2.20	0.83 0.60	3.74			3.05 3.65	1.82 0.11	31
MAXIMUM	3.67		4.38		4.74		5.12		4.28		4.62		MAXIMUM
MINIMUM	-0.98		-0.99		-0.36		0.24		-0.69		-0.14		MINIMUM

NR - NO RECORD

LOCATION: LAT. 38 06 53, LONG. 121 29 47, NE SEC 14, T3N, R4E,  
AT STATE HIGHWAY 12 AT TERMINOUS. STATION DISCONTINUED  
AUGUST 4, 1969, AND REACTIVATED MARCH 1, 1972.PERIOD OF RECORD: FEB 1968 TO AUG 1969  
MAR 1972 TO DATE



TABLE B-12 (CONTINUED)

## DAILY TIDES

894120 LITTLE POTATO SLOUGH AT TERMINOUS  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	3.02 3.93	1.70 0.86	3.01 2.73	0.40 -0.08	4.15 2.78	0.14 0.96	4.13 2.68	-0.30 1.30	3.69 2.56	-0.36 0.91	3.47 3.05	0.08 0.58	01
02	3.89 4.10	2.01 1.43	3.18 2.53	0.01 0.02	4.23 2.90	0.05 1.07	4.12 2.68	-0.35 1.36	3.81 2.88	-0.20 1.12	3.37 3.26	0.27 0.27	02
03	4.17 4.07	2.09 1.59	3.34 2.63	-0.10 0.38	4.17 2.94	-0.09 1.41	4.12 2.82	-0.25 1.34	3.95 3.02	0.15 1.02	0.66 0.40	3.23 3.37	03
04	4.21 3.88	1.88 1.58	3.76 2.89	0.09 0.69	4.25 2.88	-0.09 1.30	4.04 2.66	-0.39 1.07	3.78 3.05	0.10 0.10	0.50 0.42	3.08 3.34	04
05	4.52 4.43	2.03 2.22	4.03 2.95	0.02 1.00	3.91 2.89	-0.27 1.52	3.84 2.87	-0.37 0.05	0.82 0.05	3.55 2.97	0.34 0.36	2.79 3.39	05
06	4.89 3.99	1.90 1.80	4.06 2.90	-0.02 1.06	3.96 2.92	-0.38 1.06	1.21 2.86	3.81 2.86	0.61 -0.22	2.98 2.94	0.24 0.55	2.63 3.47	06
07	4.45 3.63	1.32	4.02 2.82	-0.19 1.16	1.51 -0.35	3.89 2.93	1.02 -0.39	3.48 2.81	0.44 0.00	2.78 3.11	0.14 1.09	2.59 3.83	07
08	1.76 1.32	4.54 4.10	3.99 2.97	-0.13	1.52 -0.47	3.63 3.09	0.75 -0.52	3.04 2.87	0.39 -0.09	2.48 3.23	0.21 1.38	2.47 3.93	08
09	2.24 1.36	4.71 3.53	1.54 -0.07	4.00 2.96	1.55 -0.28	3.54 3.12	0.72 -0.50	2.85 2.98	0.41 0.51	2.53 3.82	0.08 1.43	2.49 3.90	09
10	1.88 0.63	3.98 2.85	1.57 -0.45	3.60 2.69	1.48 -0.22	3.18 3.26	0.64 -0.33	2.57 3.14	0.54 0.84	2.35 3.95	-0.04 1.44	2.59 3.94	10
11	1.67 0.43	3.72 2.74	1.52 -0.58	3.20 2.71	1.44 0.00	2.94 3.42	0.34 -0.43	1.93 3.18	0.27 1.30	2.33 4.21	-0.12 1.12	2.69 1.12	11
12	1.71 0.24	3.41 2.68	1.56 -0.34	3.07 2.81	1.27 0.06	2.47 3.49	0.01 -0.11	1.63 3.27	0.22 1.66	2.65 4.32	3.94 3.25	0.16 1.50	12
13	1.73 0.07	3.09	1.22 -0.59	2.13	0.95 0.32	2.22	-0.27 0.32	1.62 3.59	0.11 1.41	2.71	4.38 3.38	0.55 1.30	13
14	2.64 2.77	1.65 0.01	2.69 1.98	0.89 -0.26	3.61 1.99	0.37 0.47	-0.37 0.81	1.85	4.15 2.55	-0.27 1.06	4.17 3.35	0.38 0.82	14
15	2.82 2.72	1.60 0.14	3.08 1.97	0.76 -0.06	3.63 2.13	-0.02 0.77	3.94 2.28	-0.31 1.24	4.14 2.77	-0.19 0.96	3.80 3.46	0.32 0.61	15
16	2.86 2.54	1.22 0.10	3.11 1.76	0.34 0.22	3.84 2.31	-0.21 0.94	4.09 2.39	-0.40 1.24	4.08 2.80	-0.21 0.63	3.62 3.60	0.46 0.46	16
17	2.99 3.08	1.24 0.85	3.35 2.05	0.07 0.24	4.15 2.67	-0.14 1.39	4.27 2.60	-0.34 1.14	3.85 2.82	-0.27 0.37	0.34 0.35	3.34 3.63	17
18	3.47 2.89	0.91 0.36	3.24 2.00	-0.35 0.32	4.52 2.95	0.00 1.50	4.29 2.61	-0.36 0.90	3.57 3.06	-0.25 0.06	0.36 0.58	3.26 3.84	18
19	3.18 2.64	0.39 0.52	3.44 2.18	-0.47 0.44	4.59 2.85	-0.25 1.34	4.21 2.71	-0.35 0.68	0.31 -0.34	3.38 2.98	0.46 0.81	3.17 3.98	19
20	3.40 2.73	0.26 0.61	3.52 2.17	-0.64 0.56	4.43 2.81	-0.37 1.17	4.09 2.91	-0.26 0.91	-0.02 -0.37	2.91 3.15	0.33 0.93	2.92 3.90	20
21	3.50 2.74	0.05 0.81	3.68 2.30	-0.66 0.83	4.40 3.01	-0.29	0.59 -0.29	3.85 3.09	-0.02 -0.21	2.73 3.36	0.16 1.05	2.76 3.79	21
22	3.78 3.09	0.16 1.29	3.92 2.55	-0.49 1.12	1.20 -0.13	4.28 3.14	0.52 -0.30	3.56 3.24	-0.01 0.01	2.55 3.46	0.22 1.36	2.79 3.69	22
23	4.09 3.01	0.17 1.23	4.08 2.71	-0.37	1.00 -0.28	3.89 3.07	0.42 -0.25	3.20 3.37	-0.09 0.26	2.29 3.58	0.13 1.48	2.78 3.61	23
24	4.08 2.88	-0.04	1.18 -0.53	4.02 2.58	0.60 -0.50	3.32 3.09	0.25 -0.22	2.82 3.48	-0.08 0.82	2.38 3.86	0.12 1.46	2.94	24
25	1.27 -0.30	3.93 2.72	0.84 -0.82	3.65 2.53	0.37 -0.69	2.77 3.04	0.01 -0.02	2.36 3.66	0.14 1.30	2.67 3.88	3.53 3.11	0.29 1.46	25
26	1.30 -0.44	3.81 2.42	0.76 -0.77	3.38 2.82	0.05 -0.65	2.21 3.17	0.11 0.72	2.48 4.03	0.06 1.17	2.59	3.43 2.92	0.04 0.94	26
27	1.14 -0.67	3.33 2.41	0.83 -0.33	3.30 3.23	-0.22 -0.42	1.89	0.20 0.89	2.46	3.75 2.78	-0.03 1.32	3.39 2.96	0.07 0.82	27
28	1.08 -0.72	3.10 2.52	0.86 -0.04	2.98	3.32 1.86	-0.48 0.06	3.96 2.36	-0.08 1.13	3.70 2.69	-0.19 1.06	3.26 3.11	0.19 0.62	28
29	0.82 -0.77	2.78	3.53 2.43	0.44 -0.31	3.58 2.17	-0.49 0.74	3.89 2.49	-0.18 1.18	3.59 2.72	-0.20 0.93	3.15 2.99	0.14 0.15	29
30	2.64 2.69	0.61 -0.39	3.43 2.42	0.10 0.20	4.03 2.68	-0.10 1.19	3.82 2.54	-0.35 1.18	3.52 2.75	-0.15 0.78	2.79 2.92	0.00	30
31			3.77 2.64	0.08 0.74			3.83 2.48	-0.37 0.98	3.46 2.87	-0.10 0.69			31
MAXIMUM	4.89		4.08		4.59		4.29		4.32		4.38		MAXIMUM
MINIMUM	-0.77		-0.82		-0.69		-0.52		-0.37		-0.12		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 6.04 - 2/15/69

ZERO OF GAGE: 1968 TO 1969 -0.11 USCGS  
1972 TO DATE 0.00 USCGS

TABLE B-12 (CONTINUED)

## DAILY TIDES

894100 GEORGIANA SLOUGH AT MOKELUMNE RIVER  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	-1.06 0.94	1.18 3.19	-0.46 1.35	2.41 2.60	0.89 1.79	3.46 2.40	0.61 1.07	3.54 1.27	2.04 3.83	1.37 0.35	1.74 0.62	4.09	01
02	-0.29 0.88	1.96 2.81	-0.70 1.03	2.17 2.36	-0.08 0.95	2.71 1.67	0.33 0.61	3.17	1.92 3.74	1.30 0.01	2.66 4.14	1.79 0.38	02
03	-0.61 1.09	1.82 2.63	-0.65 0.52	2.13 1.84	-0.18 0.62	2.79 1.58	1.63 3.80	1.00 0.76	2.19 3.87	1.40 0.02	2.70 3.95	1.81 0.33	03
04	-0.71 1.10	1.88 2.48	-0.89 0.04	2.05	0.13 0.44	3.15	2.13 4.37	1.42 0.74	2.43 4.18	1.35 0.31	2.57 3.70	1.42 0.16	04
05	-0.62 1.06	2.12	1.59 2.37	-0.81 0.21	1.73 3.34	0.45 0.19	2.88 4.92	2.17 0.99	2.56 3.91	1.14	2.70 3.78	1.18 0.31	05
06	2.72 2.59	-0.19 1.12	2.02 2.66	-0.17 -0.23	1.85 3.43	0.64 -0.03	3.04 4.92	2.10 0.94	0.12 0.74	2.41 3.75	3.02 4.08	1.23 0.74	06
07	2.83 2.58	-0.03 0.57	1.86 2.93	-0.14 -0.26	1.98 3.74	0.82 -0.01	3.14 4.83	2.05	0.11 0.83	2.82 3.69	3.55 4.26	1.47 0.95	07
08	2.58 2.52	-0.15 0.31	1.99 3.07	-0.02 -0.41	2.14 3.95	1.05	1.04 2.25	3.55 4.98	0.20 0.61	2.95 3.23	3.61 3.81	1.10	08
09	2.49 2.50	-0.12 0.12	2.09 3.39	0.35 -0.28	0.02 1.09	2.24 3.89	1.10 1.97	3.48 4.68	0.03 0.45	3.02 2.95	0.75 0.50	3.37 3.06	09
10	2.34 2.62	-0.04 -0.04	2.19 3.60	0.57	-0.24 1.03	2.19 3.92	0.91 1.58	3.35 4.14	0.14 0.42	3.25 2.60	0.59 0.57	3.48 3.00	10
11	2.37 2.95	0.19	-0.32 1.13	2.40 3.91	-0.11 1.98	2.74 4.64	0.57 1.27	3.25 3.69	0.27 0.39	3.43 2.32	0.82 0.71	3.74 2.97	11
12	0.00 0.42	2.42 3.09	0.04 1.66	3.07 4.20	0.35 1.49	2.86 4.01	0.60 1.42	3.65 3.38	0.39 0.36	3.43 2.22	1.17 0.66	3.89 2.71	12
13	-0.18 0.38	2.15 3.05	0.08 1.40	2.68 4.29	0.28 1.63	3.28 3.73	0.58 1.07	3.66 2.60	0.74 -0.10	3.32 1.66	1.13 0.28	3.54 2.25	13
14	-0.37 0.55	2.01 3.22	0.36 1.28	2.75 3.69	0.22 1.28	3.18 3.19	0.36 0.80	3.56 2.18	0.82 -0.37	3.11	1.22 0.21	3.36 2.18	14
15	-0.34 0.92	2.11 3.43	-0.07 1.35	2.75 3.47	-0.06 0.70	2.95 2.31	0.71 0.89	3.85 2.52	1.63 3.03	0.98 -0.44	1.45 0.11	3.23	15
16	-0.28 0.91	2.07 3.28	0.14 1.41	3.30 3.10	-0.25 0.54	3.02 2.06	1.50 1.30	4.53	1.88 3.35	1.33 -0.17	2.25 2.96	1.51 0.02	16
17	-0.47 0.92	2.08 3.36	0.12 1.57	3.30 3.58	0.05 0.46	3.52 1.90	2.50 4.06	1.64 0.65	2.15 3.14	1.04 -0.42	2.35 2.86	1.39 -0.08	17
18	-0.31 0.93	2.32 3.05	1.08 1.37	3.71	0.35 0.12	3.42	2.54 4.51	2.05 1.35	2.07 3.01	0.82 -0.47	2.49 2.94	1.36 0.02	18
19	-0.42 0.79	2.37 3.07	2.24 2.93	0.25 0.43	1.84 3.27	0.60 -0.20	3.16 4.55	2.38 1.63	2.37 3.38	1.17 -0.27	2.69 3.09	1.22 0.17	19
20	-0.39 0.51	2.52	1.70 3.46	0.43 0.73	1.86 3.50	0.88 -0.11	3.48 4.77	2.72 1.73	2.06 2.77	0.33 -0.56	3.01 3.40	1.30 0.56	20
21	2.75 2.76	-0.30 0.30	2.28 3.54	1.06 0.69	2.41 4.24	1.73 0.39	3.38 4.42	2.61	2.06 3.07	0.32	3.22 3.16	0.97 0.34	21
22	2.68 3.23	-0.03 0.71	2.34 3.63	1.39	2.75 3.90	1.62	1.58 2.24	3.18 3.97	-0.25 0.12	2.26 2.45	3.03 3.03	0.57 0.46	22
23	3.38 3.17	0.64 0.03	0.66 1.53	2.40 3.94	0.04 1.42	2.46 3.70	1.18 2.04	3.02 4.12	-0.59 -0.19	2.08 2.25	3.20 2.94	0.56 0.62	23
24	2.31 2.89	-0.02 -0.29	0.30 1.40	2.75 3.64	-0.09 1.35	2.37 3.58	1.18 2.03	3.16 3.90	-0.51 -0.28	2.26 2.06	3.32 2.71	0.35	24
25	2.21 2.93	0.08	-0.04 1.47	2.49 3.87	-0.17 1.34	2.34 3.49	1.07 2.03	3.38 3.77	-0.34 -0.09	2.58 2.11	0.67 0.36	3.42 2.76	25
26	-0.47 0.21	2.06 3.02	0.28 1.67	2.80 3.75	-0.17 1.48	2.51 3.59	1.04 1.61	3.36 3.14	-0.04 0.10	2.90 2.09	0.85 0.35	3.60 2.87	26
27	-0.60 0.23	1.91 2.83	-0.01 1.43	2.49 3.16	0.16 1.60	2.86 3.50	0.64 1.26	3.06 2.58	0.22 -0.14	3.09 1.82	1.44 0.52	4.10 2.97	27
28	-0.77 0.47	1.89 3.02	-0.45 1.19	2.10 2.97	0.14 1.62	2.88 3.21	0.47 1.08	3.13 2.22	0.75 0.69	3.75 2.99	1.73 0.15	4.01 2.41	28
29	-0.79 0.48	1.79 2.79	-0.40 1.57	2.45 3.01	0.25 1.83	3.12 3.15	0.55 0.95	3.29 1.85			1.42 0.37	3.83 2.91	29
30	-0.88 0.64	1.73 2.67	-0.19 2.23	2.91 3.99	0.44 1.35	2.98 2.34	0.63 0.74	3.46 1.70			2.38 0.75	4.51 2.94	30
31	-0.88 1.06	1.97 2.83			0.30 1.27	3.16 2.08	0.87 0.66	3.65			1.85 0.21	3.53	31
MAXIMUM		3.43	4.29		4.64		4.98		4.18		4.51		MAXIMUM
MINIMUM		-1.06	-0.89		-0.25		0.33		-0.59		-0.08		MINIMUM

LOCATION: LAT. 38 07 48, LONG. 121 34 46, NW SEC. 7, T3N, R4E,  
ON ANDRUS ISLAND, 2.8 MILES SOUTHEAST OF ISLETON.  
DISCONTINUED OCTOBER 1966 AND REACTIVATED JULY 1972.PERIOD OF RECORD: JUNE 1929 TO OCT 1966  
JULY 1972 TO DATE

TABLE B-12 (CONTINUED)

## DAILY TIDES

894100 GEORGIANA SLOUGH AT MOKELUMNE RIVER  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	2.98 3.84	1.82 0.87	2.90 2.60	0.47 0.04	4.02 2.65	0.24 1.04	4.03 2.56	-0.19 1.36	3.59 2.36	-0.24 1.01	3.36 2.94	0.18 0.66	01
02	3.74 3.96	2.03 1.45	3.09 2.40	0.11 0.12	4.12 2.75	0.15 1.18	4.04 2.54	-0.24 1.43	3.71 2.75	-0.08 1.20	3.17 3.14	0.36 0.36	02
03	4.04 3.93	2.14 1.63	3.24 2.49	0.01 0.43	4.06 2.79	0.03 1.50	4.02 2.67	-0.13 1.42	3.83 2.90	0.24 1.10	0.75 0.48	3.15 3.24	03
04	4.09 3.85	1.93 1.64	3.61 2.76	0.18 0.78	4.09 2.66	0.03 1.39	3.94 2.51	-0.28 1.19	3.66 2.84	0.19 0.52	0.61 0.52	2.97 3.23	04
05	4.39 4.26	2.06 2.24	3.89 2.81	0.14 1.09	3.72 2.69	-0.21 1.60	3.75 2.72	-0.26 1.33	0.92 0.15	3.34 2.73	0.46 0.46	2.48 3.28	05
06	4.75 3.72	1.95 1.87	3.95 2.78	0.10 1.14	3.79 2.71	-0.26 1.60	3.71 2.76	-0.24 1.33	0.74 -0.12	2.73 2.67	0.35 0.64	2.51 3.17	06
07	4.31 3.51	1.38 1.82	3.92 2.69	-0.08 1.26	1.60 -0.30	3.69 2.77	1.12 -0.33	3.34 2.70	0.57 0.07	2.53 2.89	0.24 1.13	2.48 3.71	07
08	4.41 3.92	1.35 0.92	3.89 2.85	-0.04 0.85	1.58 -0.34	3.51 2.86	0.85 -0.40	2.92 2.75	0.49 0.04	2.24 2.96	0.31 1.40	2.35 3.85	08
09	2.31 1.42	4.58 3.41	1.61 0.00	3.88 2.86	1.65 -0.17	3.43 2.96	0.82 -0.37	2.72 2.82	0.49 0.62	2.23 3.53	0.18 1.48	2.34 3.78	09
10	1.91 0.64	3.84 2.71	1.66 -0.36	3.49 2.56	1.56 -0.12	3.06 3.10	0.76 -0.20	2.42 3.00	0.64 0.91	2.11 3.69	0.08 1.51	2.49 3.82	10
11	1.67 0.44	3.60 2.60	1.56 -0.51	3.10 2.60	1.51 0.05	2.81 3.23	0.46 -0.31	1.76 3.04	0.38 1.29	2.22 4.10	0.00 1.20	2.58 1.20	11
12	1.72 0.29	3.26 2.56	1.62 -0.31	2.94 2.69	1.30 0.09	2.33 3.36	0.11 -0.03	1.54 3.15	0.27 1.69	2.52 4.22	3.87 3.12	0.24 1.53	12
13	1.77 0.14	2.97 2.53	1.26 -0.55	2.03	0.96 0.33	2.06	-0.18 0.39	1.52 3.49	0.17 1.47	2.57	4.25 3.25	0.63 1.34	13
14	1.68 0.06	2.67	2.59 1.88	0.94 -0.28	3.45 1.86	0.42 0.48	-0.25 0.86	1.73	4.06 2.45	-0.15 1.13	4.04 3.21	0.49 0.89	14
15	2.71 2.59	1.61 0.19	2.94 1.87	0.78 -0.02	3.49 1.92	0.03 0.84	3.72 2.14	-0.19 1.34	4.06 2.63	-0.08 1.04	3.69 3.32	0.44 0.72	15
16	2.76 2.43	1.26 0.17	2.98 1.65	0.43 0.22	3.74 2.19	-0.07 1.06	3.99 2.27	-0.27 1.33	3.98 2.67	-0.09 0.75	3.50 3.48	0.55 0.55	16
17	2.89 2.89	1.22 0.88	3.23 1.92	0.16 0.31	4.03 2.53	-0.02 1.47	4.17 2.46	-0.26 1.24	3.75 2.69	-0.14 0.48	0.47 0.46	3.23 3.51	17
18	3.37 2.77	0.95 0.44	3.14 1.88	-0.23 0.39	4.41 2.80	0.11 1.59	4.19 2.49	-0.25 1.02	3.47 2.92	-0.16	0.47 0.69	3.15 3.73	18
19	3.07 2.50	0.46 0.55	3.31 2.06	-0.37 0.54	4.46 2.71	-0.08 1.44	4.11 2.60	-0.22 0.80	0.45 -0.22	3.26 2.86	0.56 0.88	3.04 3.84	19
20	3.28 2.58	0.33 0.64	3.40 2.05	-0.51 0.65	4.32 2.68	-0.23 1.29	3.98 2.80	-0.15 0.72	0.09 -0.25	2.79 3.04	0.45 0.99	2.80 3.79	20
21	3.39 2.61	0.15 0.84	3.58 2.18	-0.54 0.93	4.29 2.88	-0.15	3.75 2.91	-0.18	0.10 -0.09	2.50 3.19	0.27 1.12	2.64 3.69	21
22	3.68 2.90	0.21 1.33	3.80 2.43	-0.35 1.20	1.33 -0.05	4.18 3.03	0.64 -0.16	3.46 3.09	0.10 0.12	2.44 3.34	0.30 1.41	2.68 3.59	22
23	3.95 2.89	0.29 1.33	3.94 2.55	-0.28	1.13 -0.18	3.78 2.94	0.53 -0.12	3.07 3.20	0.02 0.36	2.19 3.47	0.22 1.53	2.68 3.49	23
24	3.98 2.78	0.07	1.23 -0.41	3.84 2.45	0.72 -0.41	3.20 2.90	0.38 -0.08	2.64 3.28	0.02 0.90	2.28 3.74	0.21 1.53	2.82	24
25	1.35 -0.18	3.82 2.61	0.95 -0.64	3.53 2.38	0.47 -0.60	2.65 2.92	0.12 0.08	2.23 3.51	0.24 1.36	2.57 3.79	3.36 2.93	0.35 1.51	25
26	1.38 -0.33	3.72 2.31	0.86 -0.60	3.12 2.71	0.14 -0.57	2.10 3.07	0.19 0.76	2.28 3.89	0.14 1.24	2.48	3.05 2.67	0.14 1.05	26
27	1.20 -0.62	3.23 2.31	0.91 -0.26	3.18 3.13	-0.13 -0.34	1.78	0.23 0.93	2.34 3.83	3.61 2.64	0.06 1.36	3.14 2.44	0.21 0.86	27
28	1.13 -0.63	2.97 2.41	0.94 -0.02	2.89 3.40	3.21 1.75	-0.38 0.13	-0.01 1.17	2.25	3.61 2.55	-0.07 1.14	3.15 2.98	0.27 0.68	28
29	0.89 -0.67	2.67	0.57 -0.22	2.32	3.49 2.04	-0.38 0.79	3.78 2.36	-0.09 1.27	3.48 2.59	-0.11 1.01	3.01 2.87	0.25 0.25	29
30	2.55 2.58	0.68 -0.31	3.31 2.30	0.27 0.29	3.93 2.53	0.01 1.29	3.73 2.38	-0.24 1.25	3.41 2.84	-0.05 0.86	2.66 2.81	0.10	30
31			3.62 2.51	0.18 0.79			3.72 2.36	-0.26 1.07	3.35 2.75	0.00 0.77			31
MAXIMUM	4.75		3.95		4.46		4.19		4.22		4.25		MAXIMUM
MINIMUM	-0.67		-0.64		-0.60		-0.40		-0.25		0.00		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 7.1 - 12/16/55

ZERO OF GAGE: 1929 TO 1940 0.00 USCGS  
1940 0.00 USCGS  
1964 -0.71 USCGS  
1964 TO 1966 0.00 USCGS  
1972 TO DATE 0.00 USCGS

TABLE B-12 (CONTINUED)

## DAILY TIDES

895100 SAN JOAQUIN RIVER AT SAN ANDREAS LANDING  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	-0.01 1.18	2.41 3.40	-0.31 1.63	2.56 2.76	0.99 1.99	3.58 2.56	0.65 1.13	3.68 1.53	1.51 0.43	3.94	1.91 0.77	4.22	01
02	-0.19 1.13	2.17 3.01	-0.52 1.28	2.31 2.51	0.02 1.09	2.83 1.80	0.38 0.61	3.31	2.04 3.86	1.45 0.02	2.78 4.25	2.03 0.42	02
03	-0.44 1.34	2.03 2.84	-0.47 0.76	2.27 1.99	-0.12 0.73	2.89 1.69	1.81 4.04	1.05 0.75	2.30 3.97	1.55 0.02	2.81 4.08	1.94 0.18	03
04	-0.55 1.37	2.08 2.71	-0.71 0.24	2.17 1.73	0.22 0.54	3.25	2.23 4.46	1.55 0.75	2.53 4.27	1.50 0.31	2.62 3.79	1.40 -0.02	04
05	-0.47 1.29	2.31 2.95	-0.64 0.40	2.47	1.85 3.45	0.57 0.27	2.98 5.04	2.31 0.97	2.71 4.06	1.19 0.13	2.81 3.87	1.20 0.18	05
06	-0.06 1.28	2.77	2.14 2.78	-0.02 -0.07	1.97 3.58	0.77 0.01	3.15 5.01	2.22 0.90	2.52 3.86	0.84 0.11	3.12 4.16	1.25 0.67	06
07	3.04 2.79	0.07 0.74	1.98 3.06	0.04 -0.10	2.09 3.87	0.96 0.01	3.25 4.93	2.15 0.90	2.92 3.78	0.91	3.64 4.37	1.48 0.88	07
08	2.77 2.71	-0.06 0.41	2.12 3.17	0.17 -0.28	2.28 4.10	1.19	3.62 5.08	2.26	0.20 0.67	3.03 3.32	3.69 3.90	1.08 0.70	08
09	2.71 2.71	-0.03 0.21	2.21 3.50	0.54 -0.18	0.00 1.24	2.39 4.00	0.95 2.00	3.57 4.77	0.05 0.50	3.12 3.04	3.44 3.15	0.42 0.52	09
10	2.55 2.83	0.04 0.02	2.31 3.69	0.74 -0.25	-0.23 1.17	2.30 4.05	0.81 1.61	3.46 4.22	0.17 0.49	3.36 2.70	3.56 2.80	0.50 0.80	10
11	2.58 3.16	0.29 0.06	2.50 4.05	1.32	-0.14 2.18	2.94 4.77	0.52 1.31	3.33 3.79	0.37 0.39	3.53 2.43	3.83 3.07	0.68 1.21	11
12	2.63 3.33	0.49 -0.12	0.11 1.83	3.21 4.33	0.36 1.61	3.00 4.13	0.56 1.49	3.74 3.47	0.52 0.49	3.55 2.34	3.99 2.80	0.65 1.21	12
13	2.38 3.31	0.46	0.15 1.58	2.79 4.43	0.27 1.72	3.40 3.94	0.59 1.13	3.75 2.68	0.92 0.04	3.44 1.78	3.64 2.36	0.28 1.33	13
14	-0.31 0.64	2.29 3.48	0.42 1.43	2.86 3.82	0.25 1.43	3.29 3.30	0.38 0.89	3.64 2.29	1.03 -0.22	3.24	NR	NR	14
15	-0.31 1.02	2.37 3.69	-0.04 1.48	2.89 3.59	-0.03 0.82	3.06	0.80 0.95	3.96 2.63	1.76 3.15	1.20 -0.37	NR	NR	15
16	-0.20 1.07	2.29 3.51	0.09 1.52	3.42 3.23	2.42 3.12	-0.19 0.65	1.62 1.32	4.63	2.00 3.48	1.56 -0.04	NR	NR	16
17	-0.36 1.16	2.27 3.50	0.12 1.63	3.49 3.81	NR	NR	2.61 4.17	1.75 0.63	2.26 3.27	1.25 -0.33	NR	NR	17
18	-0.15 1.17	2.46 3.20	1.08 1.38	4.03 2.69	0.49 0.20	3.54 1.96	2.65 4.60	2.09 1.28	2.19 3.14	1.02 -0.40	NR	NR	18
19	-0.28 1.03	2.53 3.22	0.21 0.39	3.29	0.77 -0.13	3.39 1.98	3.22 4.68	2.43 1.58	2.48 3.51	1.39 -0.17	NR	NR	19
20	-0.22 0.74	2.65 2.88	2.20 3.68	0.40 0.68	1.06 -0.03	3.61	3.55 4.88	2.78 1.66	2.17 2.88	0.49 -0.49	NR	NR	20
21	-0.13 0.51	2.89	2.68 4.04	1.08 0.64	2.51 4.39	1.93 0.46	3.43 4.52	2.68 1.56	2.17 3.18	0.47 -0.18	NR	NR	21
22	2.81 3.34	0.13 0.86	2.88 4.23	1.43 0.61	2.85 4.01	1.82 0.09	3.22 4.05	2.32	2.38 2.58	0.25 -0.52	NR	NR	22
23	3.51 3.30	0.83 0.19	2.91 4.05	1.57 0.33	2.57 3.81	1.58 -0.09	1.17 2.13	3.10 4.19	2.17 2.36	-0.06	NR	NR	23
24	2.44 3.00	0.17 -0.13	2.86 3.76	1.56 0.00	2.48 3.69	1.50 -0.18	1.18 2.11	3.27 3.98	-0.43 -0.19	2.36 2.17	NR	NR	24
25	2.33 3.04	0.29 -0.33	2.61 3.97	1.64	2.44 3.60	1.51 -0.16	1.07 2.12	3.48 3.87	-0.21 0.05	2.69 2.22	NR	NR	25
26	2.18 3.13	0.41	0.34 1.85	2.91 3.86	2.62 3.68	1.64 0.13	1.06 1.73	3.46 3.25	0.09 0.23	3.02 2.22	NR	NR	26
27	-0.47 0.44	2.03 2.95	0.03 1.62	2.61 3.29	2.99 3.59	1.76	0.66 1.35	3.16 2.67	0.38 0.00	3.21 1.94	NR	NR	27
28	-0.62 0.71	2.02 3.17	-0.40 1.38	2.23 3.10	0.14 1.72	2.96 3.31	0.52 1.17	3.23 2.32	0.95 0.79	3.87 3.15	NR	NR	28
29	-0.62 0.75	1.94 2.94	-0.33 1.78	2.57 3.15	0.16 1.89	3.26 3.24	0.61 1.06	3.38 1.97			NR	NR	29
30	-0.74 0.89	1.87 2.82	-0.10 2.44	3.03 4.11	0.38 1.39	3.09 2.40	0.72 0.83	3.57 1.82			NR	NR	30
31	-0.73 1.33	2.11 2.98			0.23 1.29	3.25 2.16	1.00 0.74	3.76 2.16			NR	NR	31
MAXIMUM		3.69	4.43		NR		5.08		4.27		NR		MAXIMUM
MINIMUM		-0.74	-0.71		NR		0.38		-0.52		NR		MINIMUM

NR - NO RECORD

LOCATION: LAT. 38 06 12, LONG 121 35 26, SE SEC 13, T3N, R3E,  
APPROXIMATELY 1.2 MILES BELOW MOKELUMNE RIVER.

PERIOD OF RECORD: MAY 1952 TO DATE

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895100 SAN JOAQUIN RIVER AT SAN ANDREAS LANDING  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	NR	NR	3.03 2.73	0.61 0.13	4.11 2.77	0.29 1.18	4.16 2.68	-0.08 1.63	3.76 2.58	-0.15 1.22	3.48 3.05	0.27 0.81	01
02	NR	NR	3.20 2.52	0.24 0.25	4.22 2.93	0.19 1.34	4.16 2.69	-0.12 1.67	3.83 2.69	0.02 1.43	3.38 3.26	0.49 0.88	02
03	NR	NR	3.37 2.62	0.12 0.58	4.17 2.92	0.04 1.65	4.16 2.83	-0.01 1.65	3.96 3.06	0.36 1.30	3.27 3.33	0.62	03
04	4.14 3.90	1.89 1.59	3.74 2.86	0.22 0.89	4.25 2.86	0.03 1.53	4.07 2.67	-0.16 1.41	3.78 3.05	0.31 1.10	0.76 0.67	3.09 3.36	04
05	4.46 4.36	2.04 2.25	3.98 2.91	0.19 1.24	3.91 2.86	-0.21 1.75	3.87 2.87	-0.18 1.54	3.57 3.02	0.30	0.59 0.60	2.81 3.40	05
06	4.81 3.82	1.95 1.88	4.05 2.89	0.15 1.32	3.96 2.91	-0.27 1.77	3.84 2.88	-0.12 1.35	0.92 0.05	3.05 2.97	0.49 0.81	2.65 3.49	06
07	4.38 3.56	1.38 1.87	4.02 2.80	-0.03 1.45	3.89 2.93	-0.25	3.52 2.84	-0.22	0.75 0.25	2.84 3.19	0.38 1.32	2.62 3.83	07
08	4.50 4.04	1.36	4.00 2.97	0.00 1.81	1.76 -0.29	3.67 3.10	1.06 -0.30	3.07 2.88	0.67 0.20	2.52 3.27	0.42 1.60	2.49 3.97	08
09	2.38 1.39	4.67 3.51	4.01 2.99	0.04	1.47 -0.09	3.59 3.17	1.00 -0.29	2.87 3.01	0.70 0.77	2.55 3.77	0.30 1.70	2.53 3.91	09
10	2.00 0.63	3.93 2.81	1.83 -0.34	3.61 2.69	1.76 -0.03	3.23 3.26	0.89 -0.13	2.57 3.17	0.76 1.06	2.39 3.98	0.16 1.71	2.63 3.96	10
11	1.79 0.47	3.70 2.71	1.74 -0.45	3.25 2.72	1.71 0.15	3.01 3.39	0.59 -0.23	1.95 3.19	0.49 1.51	2.37 4.22	0.08 1.41	2.73	11
12	1.87 0.33	3.40 2.67	1.81 -0.25	3.12 2.84	1.50 0.21	2.48 3.48	0.24 0.12	1.68 3.28	0.43 1.92	2.68 4.36	3.99 3.28	0.34 1.70	12
13	1.96 0.20	3.11 2.66	1.42 -0.50	2.17 2.72	1.11 0.48	2.22 3.59	-0.06 0.57	1.68 3.63	0.29 1.68	2.72 3.37	4.36 3.37	0.65 1.42	13
14	1.83 0.12	2.79	1.10 -0.18	1.98	0.57 0.66	2.01	-0.14 1.09	1.90 3.93	4.19 2.55	-0.05 1.32	4.15 3.33	0.55 1.01	14
15	2.83 2.73	1.76 0.26	3.14 1.96	0.91 0.00	3.61 2.13	0.14 0.95	-0.14 1.53	2.29	4.17 2.75	0.00 1.24	3.80 3.43	0.51 0.82	15
16	2.88 2.54	1.40 0.24	3.14 1.77	0.53 0.30	3.87 2.34	-0.01 1.22	4.12 2.40	-0.23 1.54	4.10 2.78	-0.02 0.89	3.62 3.58	0.65 0.55	16
17	3.01 3.10	1.36 0.95	3.34 2.06	0.24 0.43	4.17 2.67	0.02 1.67	4.30 2.57	-0.19 1.46	3.86 2.79	-0.08 0.61	3.34 3.61	0.56	17
18	3.45 2.88	1.04 0.51	3.23 1.99	-0.19 0.50	4.57 2.96	0.18 1.80	4.32 2.62	-0.19 1.21	3.57 3.08	-0.11 0.58	0.57 0.81	3.27 3.84	18
19	3.17 2.61	0.53 0.64	3.40 2.15	-0.36 0.66	4.60 2.83	-0.08 1.62	4.22 2.71	-0.15 0.96	3.35 2.96	-0.16	0.66 1.03	3.19 3.96	19
20	3.38 2.70	0.38 0.74	3.51 2.15	-0.53 0.77	4.44 2.80	-0.21 1.45	4.09 2.94	-0.06 0.87	0.19 -0.15	2.90 3.15	0.53 1.16	2.92 3.91	20
21	3.49 2.71	0.17 0.95	3.67 2.28	-0.56 1.07	4.41 3.03	-0.12 1.49	3.86 3.13	-0.12	0.21 0.02	2.74 3.35	0.37 1.31	2.77 3.81	21
22	3.78 3.04	0.24 1.46	3.90 2.53	-0.38 1.35	4.29 3.17	-0.01	0.79 -0.09	3.58 3.25	0.22 0.26	2.56 3.44	0.43 1.65	2.82 3.75	22
23	4.10 3.06	0.29 1.47	4.07 2.68	-0.28 1.40	1.28 -0.17	3.90 3.08	0.69 -0.02	3.21 3.37	0.12 0.52	2.36 3.59	0.35 1.74	2.81 3.65	23
24	4.08 2.89	0.08 1.51	4.00 2.58	-0.39	0.87 -0.37	3.32 3.08	0.52 0.04	2.85 3.47	0.15 1.12	2.42 3.06	0.35 1.74	2.96 3.50	24
25	3.94 2.72	-0.15	1.13 -0.66	3.65 2.51	0.62 -0.50	2.75 3.07	0.28 0.23	2.40 3.66	0.34 1.57	2.70 3.92	0.47 1.70	3.17	25
26	1.56 -0.30	3.84 2.42	1.03 -0.61	3.40 2.81	0.30 -0.45	2.23 3.19	0.34 0.96	2.51 4.01	0.26 1.44	2.65	3.44 2.92	0.24 1.19	26
27	1.39 -0.54	3.36 2.43	1.09 -0.21	3.30 3.24	0.02 -0.18	1.91 3.32	0.40 1.16	2.50 3.95	3.76 2.78	0.16 1.55	3.38 2.97	0.30 1.07	27
28	1.34 -0.56	3.15 2.53	1.09 0.06	3.00 3.53	-0.24 0.36	1.89	0.12 1.45	2.45	3.74 2.69	0.02 1.34	3.28 3.12	0.39 0.85	28
29	1.10 -0.59	2.80	0.66 -0.15	2.43	3.60 2.17	-0.25 1.02	3.98 2.52	0.08 1.54	3.61 2.72	-0.01 1.20	3.18 2.98	0.38 0.40	29
30	2.66 2.69	0.87 -0.20	3.41 2.42	0.28 0.38	4.06 2.68	0.13 1.52	3.89 2.56	-0.10 1.51	3.54 2.75	0.02 1.03	2.78 2.92	0.22 0.16	30
31			3.78 2.63	0.25 0.92			3.89 2.52	-0.09 1.33	3.46 2.87	0.09 0.93			31
MAXIMUM	NR		4.07		4.60		4.32		4.36		4.36		MAXIMUM
MINIMUM	NR		-0.66		-0.50		-0.30		-0.16		0.08		MINIMUM

NR - NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 9.7 - 12/26/55

ZERO OF GAGE: 1952 -2.84 USCGS  
1964 -3.39 USCGS  
1964 TO 1971 -3.00 USCGS  
1971 0.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

895060 THREE MILE SLOUGH AT SAN JOAQUIN RIVER  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	NR	NR	-0.73 1.37	2.13 2.35	0.67 1.69	3.23 2.24	0.31 0.82	3.27 1.22	1.24 0.10	3.55	1.67 0.51	3.87 2.39	01
02	NR	NR	-0.86 1.00	1.90 2.06	-0.30 0.79	2.45 1.44	0.08 0.30	2.91 1.39	1.60 3.47	1.16 -0.32	1.77 0.09	3.89	02
03	NR	NR	-0.81 0.48	1.88 1.56	-0.43 0.43	2.52 1.31	0.83 0.45	3.73	1.89 3.61	1.27 -0.34	2.41 3.71	1.66 -0.19	03
04	NR	NR	-1.02 -0.01	1.79 1.33	-0.07 0.24	2.90 1.45	1.82 4.09	1.26 0.40	2.13 3.91	1.22 -0.06	2.19 3.40	1.10 -0.38	04
05	NR	NR	-0.93 0.14	2.14	-0.29 -0.05	3.12	2.55 4.67	2.01 0.60	2.29 3.71	0.92 -0.22	2.39 3.51	0.89 -0.19	05
06	NR	NR	1.77 2.43	-0.30 -0.40	1.57 3.24	-0.49 -0.32	2.74 4.66	1.92 0.49	2.12 3.51	0.53 -0.27	2.75 3.81	0.94 0.27	06
07	NR	NR	1.60 2.69	-0.27 -0.42	1.72 3.57	-0.70 -0.34	2.84 4.57	1.85 0.47	2.55 3.45	0.58 -0.18	3.30 4.06	1.14 0.49	07
08	NR	NR	1.74 2.83	-0.12 -0.62	1.90 3.79	-0.93 -0.34	3.20 4.70	1.95 0.53	2.69 2.98	0.33	3.32 3.54	0.70 0.33	08
09	NR	NR	1.84 3.17	0.26 -0.52	2.01 3.71	0.98 -0.58	3.16 4.40	1.64	-0.32 0.16	2.79 2.69	3.11 2.77	0.07 0.15	09
10	NR	NR	1.93 3.36	0.49 -0.61	1.94 3.74	0.91	0.40 1.26	3.07 3.86	-0.19 0.15	3.03 2.33	3.22 2.70	0.14	10
11	NR	NR	2.13 3.84	1.06 -0.25	-0.49 1.92	2.52 4.48	0.12 0.98	2.95 3.41	0.03 0.12	3.21 2.03	0.46 0.31	3.49 2.69	11
12	NR	NR	2.81 4.01	1.57	-0.01 1.33	2.64 3.82	0.19 1.14	3.38 3.08	0.22 0.18	3.22 1.93	0.88 0.30	3.64 2.40	12
13	NR	NR	-0.21 1.29	2.44 4.09	-0.08 1.42	3.06 3.58	0.23 0.79	3.40 2.28	-0.61 -0.27	3.09 1.98	0.90 -0.06	3.27 1.93	13
14	NR	NR	0.06 1.15	2.49 3.48	-0.11 1.13	2.95 2.93	0.05 0.56	3.30 1.87	-0.77 -0.53	2.89	1.04 -0.11	3.09 1.89	14
15	NR	NR	-0.40 1.20	2.53 3.22	-0.39 0.52	2.72 2.03	0.50 0.63	3.60 2.20	1.36 2.79	0.94 -0.62	1.33 -0.14	2.96 1.98	15
16	NR	NR	-0.24 1.24	3.08 2.85	-0.52 0.34	2.78 1.77	1.33 1.02	4.28	1.62 3.09	1.27 -0.39	1.45 -0.23	2.70	16
17	NR	NR	-0.22 1.35	3.16 3.43	-0.14 0.27	3.30 1.62	NR	NR	1.86 2.87	0.97 -0.67	2.06 2.61	1.30 -0.34	17
18	NR	NR	0.72 1.04	3.65 2.30	-0.18 -0.11	3.20	0.84 1.83	2.85 3.60	1.81 2.78	0.77 -0.71	2.20 2.68	1.25 -0.23	18
19	NR	NR	-0.14 0.05	2.94	1.57 3.05	0.50 -0.46	0.74 1.83	3.07 3.48	2.13 3.16	1.08 -0.54	2.40 2.81	1.08 -0.11	19
20	NR	NR	1.80 3.36	0.10 0.35	1.60 3.28	0.80 -0.37	0.74 1.43	3.05 2.82	1.80 2.55	0.20 -0.84	2.71 3.11	1.10 0.24	20
21	NR	NR	2.27 3.72	0.74 0.30	2.15 4.08	1.64 0.13	0.34 1.04	2.75 2.28	1.84 2.89	0.20 -0.53	2.95 2.88	0.75 0.02	21
22	NR	NR	2.49 3.92	1.14 0.26	2.49 3.67	-1.53 -0.27	0.20 0.87	2.83 1.93	2.01 2.22	-0.06 -0.88	2.78 2.77	0.33 0.20	22
23	NR	NR	2.52 3.71	1.28 -0.01	2.19 3.47	1.30 -0.45	0.31 0.76	3.00 1.58	1.84 2.01	-0.36 -0.76	2.96 2.69	0.29 0.34	23
24	NR	NR	2.51 3.38	1.28 -0.38	2.07 3.33	1.23	0.43 0.55	3.19 1.43	2.04 1.82	-0.49 -0.54	3.09 2.46	0.05 0.43	24
25	NR	NR	2.19 3.65	1.34	-0.54 1.24	2.06 3.24	NR	NR	2.37 1.88	-0.28	3.19 2.51	0.06 0.64	25
26	NR	NR	-0.03 1.59	2.53 3.51	-0.50 1.37	2.24 3.35	NR	NR	-0.23 -0.09	2.70 1.85	3.37 2.60	0.05 1.30	26
27	NR	NR	-0.31 1.37	2.24 2.92	-0.18 1.49	2.61 3.21	NR	NR	0.09 -0.32	2.89 1.57	3.89 2.71	0.20	27
28	NR	NR	-0.72 1.12	1.85 2.72	-0.21 1.42	2.56 2.90	NR	NR	0.68 0.48	3.52 2.75	1.61 -0.13	3.77 2.13	28
29	NR	NR	-0.65 1.51	2.19 2.77	-0.21 1.54	2.83 2.80	NR	NR			1.33 0.06	3.60 2.60	29
30	NR	NR	-0.41 2.16	2.65 3.74	0.00 1.07	2.67 2.00	NR	NR			2.22 0.39	4.25 2.64	30
31	NR	NR			-0.08 1.00	2.86 1.77	NR	NR			1.67 -0.16	3.21	31
MAXIMUM	NR		4.09		4.48		NR		3.91		4.25		MAXIMUM
MINIMUM	NR		-1.02		-0.58		NR		-0.88		-0.38		MINIMUM

NR = NO RECORD

LOCATION: LAT. 38 05 15, LONG. 121 41 08, SE SEC. 19, T3N, R3E,  
ON SHERMAN ISLAND, 4.9 MILES SOUTH OF RIO VISTA.

PERIOD OF RECORD: JUNE 1929 TO DATE

TABLE B-12 (CONTINUED)

## DAILY TIDES

895060 THREE MILE SLOUGH AT SAN JOAQUIN RIVER  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	2.66 3.58	1.67 0.53	2.70 2.32	0.29 -0.21	3.72 2.32	-0.11 0.84	3.80 2.25	-0.47 1.34	3.43 2.18	-0.49 0.95	3.11 2.65	-0.07 0.49	01
02	3.41 3.64	1.76 1.02	2.88 2.15	-0.10 -0.11	3.82 2.44	-0.19 1.07	3.80 2.28	-0.48 1.34	3.47 2.46	-0.33 1.12	3.00 2.84	0.12 0.53	02
03	3.68 3.56	1.77 1.20	3.05 2.25	-0.24 0.20	3.81 2.47	-0.36 1.31	3.80 2.38	-0.37 1.33	3.59 2.60	-0.01 0.98	2.85 2.91	0.25 0.40	03
04	3.74 3.51	1.57 1.27	3.36 2.42	-0.17 0.56	3.86 2.42	-0.39 1.23	3.71 2.26	-0.52 1.13	3.39 2.61	-0.06 0.85	2.71 2.98	0.33	04
05	4.09 3.93	1.73 1.92	3.57 2.48	-0.21 0.92	3.51 2.37	-0.65 1.43	3.53 2.43	-0.56 1.26	3.17 2.63	-0.07	0.24 0.28	2.41 3.01	05
06	4.44 3.43	1.63 1.54	3.68 2.47	-0.25 1.95	3.54 2.44	-0.64 1.45	3.49 2.47	-0.49 1.10	0.62 -0.30	2.67 2.59	0.14 0.52	2.24 3.11	06
07	4.02 3.17	1.05 1.55	3.67 2.38	-0.41 1.15	3.47 2.49	-0.62 1.44	3.16 2.43	-0.60	0.42 -0.11	2.47 2.82	0.02 1.01	2.21 3.43	07
08	4.13 3.50	1.01 2.07	3.64 2.53	-0.38 1.51	3.25 2.66	-0.67	0.78 -0.63	2.69 2.51	0.37 -0.11	2.14 2.90	0.08 1.28	2.06 3.53	08
09	4.32 3.09	1.02	3.60 2.58	-0.40	1.58 -0.46	3.17 2.69	0.76 -0.61	2.49 2.56	0.39 0.47	2.13 3.35	-0.04 1.41	2.10 3.50	09
10	1.69 0.26	3.53 2.36	1.54 -0.73	3.20 2.23	1.48 -0.38	2.80 2.82	0.63 -0.47	2.15 2.73	0.40 0.76	1.94 3.55	-0.18 1.44	2.21 3.56	10
11	1.50 0.13	3.30 2.27	1.41 -0.83	2.81 2.29	1.43 -0.22	2.48 2.89	0.29 -0.53	1.52 2.75	0.15 1.22	1.94 3.78	-0.24 1.16	2.32	11
12	1.60 0.00	3.01 2.23	1.55 -0.64	2.59 2.37	1.13 -0.16	2.02 2.99	-0.07 -0.18	1.25 2.92	0.06 1.57	2.21 3.95	3.59 2.80	-0.03 1.35	12
13	1.65 -0.10	2.71 2.23	1.14 -0.85	1.75 2.27	0.73 0.09	1.75 3.14	-0.38 0.31	1.25 3.25	-0.07 1.41	2.27 3.82	3.91 2.94	0.27 1.06	13
14	1.56 -0.18	2.39 2.41	0.80 -0.59	1.53 2.60	0.21 0.31	1.53 3.21	-0.48 0.80	1.49 3.55	-0.41 1.05	2.17	3.72 2.90	0.18 0.59	14
15	1.46 -0.06	2.31	0.57 -0.29	1.53	-0.25 0.64	1.64	-0.53 1.20	1.82	3.82 2.34	-0.35 0.92	3.42 3.02	0.12 0.40	15
16	2.48 2.13	1.11 -0.07	2.65 1.30	0.17 -0.09	3.49 1.90	-0.34 0.94	3.76 1.97	-0.60 1.23	3.73 2.37	-0.39 0.61	3.22 3.20	0.26 0.18	16
17	2.62 2.53	1.06 0.58	2.88 1.54	-0.11 0.08	3.78 2.23	-0.36 1.33	3.92 2.13	-0.56 1.14	3.51 2.39	-0.46 0.28	2.95 3.23	0.20	17
18	3.09 2.49	0.72 0.17	2.85 1.57	-0.56 0.18	4.14 2.49	-0.24 1.47	3.95 2.20	-0.57 0.93	3.22 2.62	-0.49 0.23	0.19 0.47	2.85 3.44	18
19	2.81 2.19	0.19 0.31	3.01 1.72	-0.74 0.38	4.21 2.40	-0.44 1.28	3.86 2.31	-0.52 0.67	2.99 2.59	-0.52	0.29 0.69	2.73 3.56	19
20	2.98 2.27	0.05 0.40	3.16 1.73	-0.91 0.46	4.08 2.38	-0.59 1.13	3.73 2.51	-0.44 0.56	-0.16 -0.50	2.53 2.78	0.18 0.85	2.51 3.51	20
21	3.12 2.33	-0.19 0.63	3.33 1.87	-0.95 0.75	4.07 2.58	-0.51 1.16	3.51 2.67	-0.49	-0.13 -0.31	2.35 2.97	0.02 1.04	2.35 3.38	21
22	3.46 2.59	-0.16 1.14	3.52 2.09	-0.79 1.01	3.93 2.74	-0.45	0.44 -0.45	3.23 2.86	-0.12 -0.04	2.17 3.07	0.07 1.38	2.39 3.32	22
23	3.78 2.64	-0.11 1.18	3.71 2.24	-0.71 1.04	1.00 -0.60	3.54 2.65	0.36 -0.38	2.84 3.01	-0.24 0.26	1.90 3.20	0.01 1.50	2.38 3.20	23
24	3.77 2.51	-0.30 1.22	3.62 2.16	-0.77	0.59 -0.75	2.95 2.65	0.20 -0.28	2.45 3.11	-0.19 0.85	2.02 3.44	0.02 1.45	2.51	24
25	3.61 2.33	-0.54	0.85 -1.05	3.27 2.12	0.31 -0.89	2.33 2.63	-0.05 -0.06	1.99 3.29	0.02 1.33	2.29 3.53	3.03 2.57	0.09 1.35	25
26	1.28 -0.67	3.50 2.03	0.77 1.00	3.02 2.43	-0.05 -0.79	1.80 2.82	-0.01 0.63	2.07 3.60	-0.07 1.17	2.20 3.31	2.91 2.44	-0.12 0.89	26
27	1.11 -0.94	3.00 2.03	0.81 -0.62	2.87 2.87	-0.33 -0.50	1.48 2.97	0.00 0.86	2.05 3.52	-0.21 1.25	2.32	2.86 2.53	-0.04 0.71	27
28	1.07 -0.90	2.76 2.16	0.76 -0.38	2.59 3.17	-0.57 0.06	1.47 3.25	-0.25 1.14	2.03	3.34 2.24	-0.32 1.03	2.84 2.68	0.03 0.49	28
29	0.86 -0.93	2.41 2.30	0.35 -0.51	2.00 3.02	-0.59 0.75	1.76	3.59 2.12	-0.31 1.22	3.23 2.30	-0.36 0.90	2.69 2.59	0.01 0.05	29
30	0.58 -0.58	2.32	-0.07 0.02	1.97	3.68 2.23	-0.24 1.22	3.53 2.14	-0.43 1.20	3.16 2.35	-0.32 0.73	2.38 2.52	-0.11 -0.17	30
31			3.44 2.18	-0.11 0.56			3.54 2.12	-0.46 1.03	3.09 2.47	-0.27 0.61			31
MAXIMUM		4.44	3.71		4.21		3.95		3.95		3.91		MAXIMUM
MINIMUM		-0.94	-1.05		-0.89		-0.63		-0.52		-0.24		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 5.9 - 4/6/58  
 MAXIMUM OF RECORD IS MAXIMUM RECORDED STAGE --  
 RECORD NOT COMPLETE IN DECEMBER 1955.

ZERO OF GAGE: 1929 TO 1940 0.00 USED  
 1940 TO 1959 0.00 USCGS  
 1959 -10.00 USCGS  
 1964 -10.45 USCGS  
 1964 TO DATE 0.00 USCGS

TABLE B-12 (CONTINUED)

## DAILY TIDES

895020 SAN JOAQUIN RIVER AT ANTIOCH  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
01	-0.87 0.57	1.89 2.89	-1.24 1.06	1.92 2.22	0.14 1.40	3.11 2.14	-0.10 0.47	3.19 1.12	-0.88 -0.47	3.42 1.42	1.37 0.11	3.80 2.23	01
02	-1.03 0.59	1.64 2.50	-1.37 0.73	1.73 1.89	-0.75 0.50	2.35 1.32	-0.24 -0.21	2.77 1.22	-0.79 -0.98	3.37	1.48 -0.54	3.78 2.27	02
03	-1.27 0.85	1.49 2.28	-1.32 0.20	1.74 1.41	-0.78 0.06	2.44 1.19	0.47 -0.09	3.67 1.69	1.74 3.52	0.89 -1.07	1.35 -0.93	3.60	03
04	-1.34 0.86	1.52 2.12	-1.52 -0.31	1.72 1.23	-0.22 0.04	2.45 1.47	0.95 -0.28	4.01	2.02 3.87	0.82 -0.83	2.80 3.26	0.70 -1.12	04
05	-1.24 0.75	1.78 2.37	-1.38 -0.16	2.10 1.69	0.16 -0.31	3.18 1.57	2.37 4.59	1.62 -0.16	2.27 3.80	0.49 -1.01	2.29 3.46	0.45 -0.91	05
06	-0.86 0.66	2.20 2.56	-0.76 -0.92	2.41	0.14 -0.97	3.23	2.59 4.60	1.52 -0.30	2.13 3.57	0.11 -1.07	2.70 3.79	0.41 -0.47	06
07	-0.71 0.10	2.33 2.31	1.53 2.69	-0.75 -0.98	1.63 3.58	0.35 -1.02	2.70 4.55	1.42 -0.35	2.54 3.47	0.03 -0.94	3.27 4.06	0.56 -0.27	07
08	-0.89 -0.32	2.27	1.69 2.84	-0.54 -1.23	1.81 3.82	0.54 -1.05	3.06 4.63	1.49 -0.31	2.70 3.01	-0.25 -1.05	3.29 3.50	0.08 -0.36	08
09	2.30 2.31	-0.84 -0.61	1.76 3.15	-0.19 -1.14	1.96 3.71	0.58 -1.33	3.05 4.35	1.17 -0.42	2.82 2.69	-0.42 -0.84	3.10 2.74	-0.57 -0.52	09
10	2.14 2.46	-0.88 -0.86	1.87 3.36	0.02 -1.34	1.90 3.78	0.53 -1.28	2.98 3.83	0.74 -0.66	3.06 2.29	-0.42 -0.54	3.24 2.66	-0.55 -0.13	10
11	2.17 2.78	-0.47 -0.86	2.01 3.83	0.64 -0.95	2.49 4.45	1.52 -0.78	2.89 3.38	0.46	3.20 1.92	-0.49	3.50 2.63	-0.37 0.40	11
12	2.19 2.98	-0.24 -1.09	2.77 3.98	1.10	2.59 3.81	0.92	-0.53 0.61	3.35 3.01	-0.21 -0.31	3.19 1.79	3.60 2.29	-0.38	12
13	1.94 2.96	-0.23 -1.29	-0.93 0.85	2.37 4.05	-0.83 0.99	3.04 3.56	-0.41 0.25	3.33 2.19	-0.24 -0.79	3.00 1.19	0.51 -0.68	3.19 1.78	13
14	1.84 3.14	-0.03 -1.28	-0.67 0.73	2.41 3.44	-0.82 0.73	2.92 2.87	-0.48 0.06	3.23 1.74	0.47 -1.06	2.75 1.14	0.70 -0.66	2.93 1.68	14
15	1.86 3.25	0.33	-1.11 0.82	2.45 3.15	-1.05 0.11	2.71 1.94	0.14 0.09	3.52 2.04	0.65 -1.14	2.64	1.01 -0.65	2.78 1.78	15
16	-1.20 0.38	1.76 3.09	-0.91 0.86	3.04 2.77	-1.07 -0.08	2.79 1.69	0.99 0.47	4.11 2.03	1.44 2.93	0.90 -1.01	1.19 -0.72	2.52	16
17	-1.34 0.54	1.75 3.04	-0.83 1.00	3.10 3.30	-0.56 -0.25	3.30 1.52	1.19 -0.29	3.65	1.69 2.75	0.65 -1.31	1.84 2.45	1.01 -0.87	17
18	-1.14 0.51	1.92 2.73	0.14 0.50	3.57 2.21	-0.20 -0.66	3.19 1.45	2.02 4.08	1.44 0.30	1.71 2.70	0.45 -1.34	2.07 2.56	0.91 -0.75	18
19	-1.23 0.35	2.04 2.70	-0.67 -0.51	2.98 1.72	0.17 -1.06	3.00	2.61 4.09	1.80 0.58	2.05 3.06	0.58 -1.23	2.31 2.71	0.71 -0.65	19
20	-1.13 0.02	2.19 2.44	-0.37 -0.24	3.39	1.47 3.20	0.46 -1.01	2.94 4.34	2.09 0.69	1.71 2.52	-0.20 -1.51	2.62 3.02	0.67 -0.34	20
21	-1.01 -0.25	2.49 2.41	2.18 3.72	0.29 -0.34	2.05 3.95	1.32 -0.51	2.84 4.01	1.97 0.57	1.81 2.89	-0.21 -1.20	2.87 2.84	0.25 -0.55	21
22	-0.73 -0.10	2.94	2.43 3.93	0.73 -0.40	2.38 3.59	1.18 -0.94	2.69 3.64	1.58 0.22	1.98 2.23	-0.51 -1.52	2.73 2.72	-0.17 -0.41	22
23	3.08 2.88	-0.04 -0.79	2.46 3.73	0.89 -0.69	2.07 3.41	0.92 -1.14	2.55 3.77	1.40 0.19	1.82 2.00	-0.80 -1.35	2.93 2.66	-0.29 -0.21	23
24	1.99 2.65	-0.68 -1.10	2.49 3.40	0.91 -1.06	1.96 3.25	0.84 -1.23	2.79 3.56	1.39 0.10	2.06 1.80	-0.98 -1.07	3.09 2.42	-0.54 -0.07	24
25	1.89 2.67	-0.48 -1.35	2.10 3.60	0.93 -0.70	1.96 3.14	0.88 -1.19	3.01 3.43	1.37 0.11	2.40 1.83	-0.80 -0.68	3.20 2.47	-0.57 0.13	25
26	1.72 2.76	-0.30 -1.46	2.43 3.44	1.23 -0.96	2.15 3.24	0.98 -0.84	2.97 2.78	1.01 -0.26	2.72 1.79	-0.64 -0.31	3.37 2.53	-0.61 0.88	26
27	1.59 2.57	-0.22 -1.62	2.16 2.83	1.05	2.53 3.09	1.13 -0.87	2.67 2.21	0.58	2.88 1.46	-0.86 0.37	3.85 2.58	-0.48 1.23	27
28	1.55 2.74	0.06 -1.54	-1.35 0.81	1.76 2.61	2.44 2.78	1.03	-0.33 0.39	2.74 1.84	3.46 2.54	-0.02	3.69 1.99	-0.76	28
29	1.48 2.50	0.19	-1.25 1.19	2.11 2.65	-0.85 1.13	2.65 2.57	-0.14 0.30	2.90 1.46			0.96 -0.58	3.51 2.44	29
30	-1.69 0.31	1.34 2.33	-0.96 1.83	2.59 3.61	-0.63 0.66	2.50 1.86	0.06 0.08	3.09 1.29			1.90 -0.28	4.09 2.41	30
31	-1.62 0.78	1.60 2.44			-0.58 0.62	2.70 1.63	0.39 -0.05	3.24 1.56			1.28 -0.78	3.03 2.52	31
MAXIMUM	3.25		4.05		4.45		4.63		3.87		4.09		MAXIMUM
MINIMUM	-1.69		-1.52		-1.33		-0.66		-1.52		-1.12		MINIMUM

LOCATION: LAT. 38 01 04, LONG. 121 48 06, SW SEC. 18, T2N, R2E,  
IN PUMP HOUSE ON WHARF AT CITY WATER WORKS IMMEDIATELY  
NORTH OF ANTIOCH.

PERIOD OF RECORD: JUNE 1929 TO DATE



TABLE 8-12 (CONTINUED)

## DAILY TIDES

895020 SAN JOAQUIN RIVER AT ANTIOCH  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
01	1.34 -0.16	3.43 3.27	-0.23 -0.88	2.25 2.92	3.67 2.20	-0.81 0.37	3.75 2.11	-1.12 0.94	3.41 2.06	-1.09 0.54	3.09 2.63	-0.62 0.06	01
02	1.23 0.30	3.56 3.40	-0.68 -0.70	2.13 2.13	3.76 2.31	-0.92 0.59	3.74 2.16	-1.16 0.96	3.43 2.35	-0.92 0.67	2.98 2.80	-0.42 0.04	02
03	3.58 3.55	1.16 0.50	3.11 2.22	-0.85 -0.37	3.76 2.33	-1.10 0.83	3.73 2.23	-1.02 0.89	3.52 2.47	-0.62 0.53	2.86 2.92	-0.28 -0.11	03
04	3.73 3.54	0.94 0.60	3.38 2.34	-0.85 0.01	3.78 2.29	-1.17 0.78	3.64 2.14	-1.18 0.73	3.33 2.50	-0.67 0.38	2.68 2.96	-0.16 -0.28	04
05	4.14 3.97	1.07 1.26	3.52 2.38	-0.94 0.43	3.42 2.23	-1.44 0.97	3.47 2.30	-1.21 0.84	3.08 2.57	-0.66 0.17	2.37 3.03	-0.19 3.03	05
06	4.49 3.43	0.94 0.92	3.66 2.38	-1.03 0.62	3.45 2.30	-1.43 1.03	3.43 2.35	-1.11 0.74	2.64 2.57	-0.84 0.01	-0.38 0.11	2.19 3.12	06
07	4.06 3.18	0.35 1.01	3.64 2.28	-1.13 0.70	3.36 2.43	-1.32 1.03	3.13 2.27	-1.21 0.40	2.42 2.77	-0.55 0.66	-0.50 0.66	2.11 3.37	07
08	4.16 3.39	0.32 1.54	3.58 2.39	-1.10 1.06	3.14 2.55	-1.36 1.22	2.67 2.46	-1.18 0.39	0.00 -0.49	2.08 2.92	-0.44 0.95	1.89 3.49	08
09	4.30 3.01	0.34 1.20	3.50 2.33	-1.14 1.12	3.05 2.59	-1.11 2.59	2.43 2.50	-1.11 2.50	0.03 0.15	2.05 3.28	-0.62 1.12	1.94 3.41	09
10	3.47 2.22	-0.42 1.10	3.08 2.07	-1.42 1.00	1.12 -0.99	2.68 2.71	0.23 -0.95	2.01 2.62	-0.05 0.45	1.77 3.44	-0.75 1.13	2.08 3.49	10
11	3.18 2.10	-0.48 2.10	2.64 2.11	-1.46 2.11	1.10 -0.77	2.31 2.81	-0.09 -0.91	1.37 2.66	-0.31 0.94	1.77 3.68	-0.86 0.86	2.30 3.60	11
12	1.26 -0.54	2.86 2.03	1.23 -1.24	2.40 2.18	0.70 -0.66	1.85 2.82	-0.47 -0.52	1.12 2.82	-0.51 1.22	2.05 3.84	-0.66 0.84	2.73 3.84	12
13	1.34 -0.57	2.56 2.01	0.88 -1.34	1.60 2.09	0.26 -0.39	1.56 3.00	-0.80 0.03	1.09 3.17	-0.62 1.08	2.13 3.79	-0.47 0.49	2.90 3.49	13
14	1.28 -0.64	2.24 2.22	0.53 -1.08	1.35 2.39	-0.37 -0.08	1.35 3.06	-0.99 0.49	1.29 3.47	-1.03 0.68	2.08 3.69	-0.52 2.91	0.02 0.02	14
15	1.13 -0.54	2.13 2.30	0.14 -0.73	1.36 2.50	-0.88 0.26	1.45 3.41	-1.13 0.84	1.61 3.65	3.81 2.27	-0.99 0.44	3.44 3.03	-0.52 -0.21	15
16	0.78 -0.53	2.02 2.02	-0.40 -0.58	1.17 2.81	-0.97 0.57	1.78 3.73	-1.24 0.83	1.81 3.81	3.75 2.32	-1.05 0.09	3.25 3.22	-0.39 -0.43	16
17	2.49 2.35	0.71 -0.04	-0.74 -0.42	1.44 1.44	-1.09 0.90	2.09 2.09	3.82 2.01	-1.24 0.72	3.56 2.39	-1.11 -0.20	2.98 3.28	-0.35 -0.47	17
18	2.97 2.97	0.21 -0.37	2.80 1.43	-1.24 -0.27	4.06 2.37	-1.02 0.96	3.91 2.09	-1.28 0.47	3.25 2.60	-1.14 -0.29	2.87 3.47	-0.06 -0.41	18
19	2.71 2.09	-0.38 -0.21	2.94 1.61	-1.45 -0.06	4.20 2.30	-1.23 0.80	3.86 2.22	-1.22 0.20	3.04 2.65	-1.12 -0.66	2.69 3.59	0.20 3.59	19
20	2.92 2.17	-0.59 -0.09	3.12 1.63	-1.66 0.03	4.03 2.28	-1.41 0.62	3.72 2.44	-1.12 0.06	2.58 2.84	-1.07 -0.63	-0.49 0.46	2.44 3.50	20
21	3.10 2.27	-0.84 0.17	3.31 1.77	-1.72 0.28	4.05 2.52	-1.28 0.67	3.47 2.62	-1.18 -0.03	2.37 3.02	-0.80 0.72	-0.58 0.72	2.27 3.33	21
22	3.45 2.45	-0.87 0.63	3.50 1.99	-1.63 0.53	3.90 2.64	-1.23 0.53	3.19 2.84	-1.09 2.84	-0.62 -0.47	2.14 3.12	-0.51 1.13	2.27 3.22	22
23	3.75 2.55	-0.88 0.74	3.67 2.16	-1.55 0.55	3.52 2.57	-1.36 0.57	-0.14 -0.93	2.82 3.00	-0.75 -0.07	1.86 3.21	-0.54 1.10	2.27 3.09	23
24	3.76 2.38	-1.09 0.77	3.56 2.10	-1.58 0.44	0.14 -1.46	2.92 2.61	-0.23 -0.76	2.40 3.12	-0.67 0.57	1.92 3.41	-0.55 1.15	2.43 2.98	24
25	3.57 2.24	-1.29 0.87	3.24 2.05	-1.81 2.05	-0.15 -1.53	2.21 2.62	-0.51 -0.46	1.93 3.27	-0.50 1.05	2.16 3.44	-0.50 0.97	2.51 2.89	25
26	3.43 1.92	-1.39 0.72	0.37 -1.72	2.97 2.40	-0.55 -1.30	1.72 2.80	-0.51 0.26	1.92 3.53	-0.64 0.88	2.08 3.25	-0.72 0.50	2.42 2.42	26
27	2.90 1.92	-1.66 1.92	0.44 -1.30	2.79 2.84	-0.82 -0.92	1.39 2.97	-0.54 0.51	1.83 3.44	-0.78 0.89	2.24 3.29	2.93 2.52	-0.61 0.28	27
28	0.72 -1.54	2.66 2.08	0.34 -1.04	2.51 3.14	-1.10 -0.27	1.36 3.24	-0.82 0.78	1.84 3.51	-0.40 0.62	2.17 3.62	2.83 2.66	-0.55 -0.04	28
29	0.55 -1.55	2.32 2.25	-0.15 -1.08	1.94 3.01	-1.17 0.38	1.64 3.61	-0.88 0.80	1.98 3.47	3.21 2.25	-0.94 0.51	2.65 2.59	-0.58 -0.47	29
30	0.20 -1.19	2.22 2.67	-0.64 -0.53	1.87 3.41	-0.83 0.82	2.09 3.41	-1.03 0.80	2.04 3.41	3.15 2.31	-0.90 0.30	2.40 2.54	-0.65 -0.71	30
31			-0.72 0.03	2.08			3.49 2.05	-1.04 0.65	3.11 2.44	-0.82 0.16			31
MAXIMUM	4.49		3.67		4.20		3.91		3.84		3.84		MAXIMUM
MINIMUM	-1.66		-1.81		-1.53		-1.28		-1.14		-0.86		MINIMUM

MAXIMUM GAGE HEIGHT OF RECORD: 6.2 - 12/26/55

ZERO OF GAGE: 1929 TO 1940 0.00 USED  
1940 TO 1957 0.00 USCGS  
1957 TO 1957 -9.71 USCGS  
1957 -9.96 USCGS  
1964 -10.11 USCGS  
1964 TO DATE 0.00 USCGS

TABLE 8-12 (CONTINUED)

## DAILY TIDES

E03300 SUISIN BAY AT BENICIA  
(OCTOBER 1, 1973, THROUGH MARCH 30, 1974)

DATE	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		DATE
1	1.99 2.96	0.19 -1.91	1.92 2.29	0.66	3.15 2.23	0.89 -1.65	3.00 1.04	-0.61	NR	NR	NR	NR	1
2	1.71 2.56	0.33	-2.14 0.40	1.84 1.78	2.35 1.33	0.01	-0.78 -1.21	2.68 1.18	NR	NR	NR	NR	2
3	-2.11 0.60	1.53 2.35	-2.12 -0.14	1.86 1.43	-1.41 -0.59	2.41 1.21	0.07 -1.36	3.84 1.89	NR	NR	NR	NR	3
4	-2.07 0.62	1.63 2.23	-2.24 -0.71	1.96 1.33	-0.98 -1.16	2.85 1.39	0.71 -1.91	4.05 2.36	NR	NR	NR	NR	4
5	-1.92 0.50	1.93 2.37	-1.95 -0.37	2.54 1.95	-0.62 -1.92	3.11 1.53	1.18 -2.11	4.64	NR	NR	NR	NR	5
6	-1.65 0.22	2.30 2.64	-1.18 -1.59	2.80 1.70	-0.43 -2.52	3.34 1.70	2.63 4.67	0.97 -2.46	NR	NR	NR	NR	6
7	-1.35 -0.30	2.54 2.47	-1.34 -1.91	3.09 1.93	-0.21 -2.77	3.66	2.82 4.82	0.73 -2.61	NR	NR	NR	NR	7
8	-1.70 -0.90	2.53 2.54	-1.09 -2.26	3.32	1.91 3.99	-0.03 -2.94	3.19 4.91	0.67 -2.65	NR	NR	NR	NR	8
9	-1.63 -1.39	2.66 2.40	2.04 3.59	-0.71 -2.29	2.14 4.01	-0.07 -3.31	3.22 4.69	0.15 -2.70	NR	NR	NR	NR	9
10	-1.59 -1.76	2.88	2.15 3.86	-0.49 -2.63	2.17 4.10	0.05 -3.27	3.21 4.15	-0.43 -2.69	NR	NR	NR	NR	10
11	2.47 3.26	-1.21 -1.87	2.24 4.19	0.23 -2.30	2.74 4.64	-1.07 -2.89	3.24 3.70	-0.62 -2.25	NR	NR	NR	NR	11
12	2.48 3.43	-0.94 -2.22	2.91 4.22	0.56 -2.55	2.81 4.13	0.15 -2.71	3.71 3.22	-0.50 -1.84	NR	NR	NR	NR	12
13	2.25 3.44	-0.82 -2.43	2.52 4.27	0.37 -2.28	3.36 3.80	0.26 -2.53	3.66 2.29	-0.88 -1.52	NR	NR	3.25 1.81	-2.15 0.21	13
14	2.15 3.59	-0.47 -2.47	2.53 3.50	0.16 -2.66	3.17 3.07	-0.16 -2.58	3.46 1.82	-0.96 -0.45	NR	NR	2.96 1.61	-1.85 0.65	14
15	2.05 3.53	-0.27 -2.46	2.59 3.26	0.29 -2.31	3.08 2.09	-0.69 -2.18	3.64 2.04	1.00	NR	NR	2.72 1.72	-1.69	15
16	1.93 3.38	0.05 -2.46	3.26 2.83	0.30	3.07 1.80	-0.94	0.55 -0.67	4.20 2.03	NR	NR	0.91 -1.66	2.52 1.75	16
17	1.98 3.25	0.25	-2.18 0.43	3.25 3.32	-1.33 -1.38	3.56 1.60	0.72 -1.72	3.61 1.94	NR	NR	0.61 -1.86	2.42 2.02	17
18	-2.39 0.16	2.02 2.84	-1.14 -0.74	3.49 2.18	-0.81 -1.82	3.34 1.54	1.05 -1.64	4.01 2.44	NR	NR	0.44 -1.94	2.55 2.31	18
19	-2.41 -0.03	2.21 2.76	-1.90 -1.94	3.02 1.71	-0.26 -2.38	3.16 1.63	1.03 -1.85	3.85	NR	NR	0.11 -1.89	2.81 2.62	19
20	-2.08 -0.50	2.51 2.64	-1.42 -1.90	3.48 2.14	0.09 -2.40	3.38	2.69 4.14	1.05 -1.83	NR	NR	-0.19 -1.69	3.02 2.88	20
21	-1.95 -0.90	2.87 2.64	-0.76 -2.15	3.68	2.28 4.15	1.01 -1.80	2.58 3.76	0.71 -2.11	NR	NR	-0.89 -1.95	2.90	21
22	-1.56 -0.76	3.39 3.18	2.44 4.05	-0.12 -2.21	2.52 3.69	0.81 -2.51	2.44 3.49	0.37 -2.32	NR	NR	2.88 2.82	-1.30 -1.79	22
23	-0.89 -1.89	3.20 2.21	2.50 3.78	0.16 -2.58	2.20 3.58	0.45 -2.75	2.35 3.57	0.26 -2.23	NR	NR	3.08 2.80	-1.55 -1.49	23
24	-1.57 -2.26	3.06	2.64 3.47	0.24 -2.90	2.11 3.36	0.37 -2.85	2.61 3.40	0.28 -2.04	NR	NR	3.28 2.60	-1.99 -1.12	24
25	2.13 3.12	-1.22 -2.55	2.09 3.67	0.36 -2.49	2.10 3.30	0.48 -2.83	2.85 3.26	0.27 -1.87	NR	NR	3.38 2.66	2.00 -0.75	25
26	1.99 3.18	-0.95 -2.65	2.46 3.51	0.72 -2.65	2.24 3.37	0.58 -2.31	2.79 2.60	-0.18 -1.92	NR	NR	3.58 2.72	-2.05 0.21	26
27	1.88 2.98	-0.66 -2.77	2.24 2.94	0.66 -2.90	2.75 3.20	0.67 -2.39	2.55 2.11	-0.49 -1.64	NR	NR	4.01 2.75	-1.89 0.80	27
28	1.86 3.00	-0.31 -2.74	1.82 2.68	0.47 -2.66	2.54 2.80	0.45 -2.27	2.66 1.73	-0.67 -1.13	NR	NR	3.86 2.12	-2.29 0.65	28
29	1.68 2.76	-0.10 -2.74	2.17 2.71	0.85 -2.13	2.72 2.50	0.50 -1.95	2.77 1.40	-0.71 -0.66			3.61 2.50	-1.99 1.64	29
30	1.68 2.55	0.13 -2.58	2.60 3.71	1.54 -0.94	2.46 1.81	-0.03 -1.47	2.98 1.24	-0.98 -0.09			4.04 2.30	-1.79	30
31	1.78 2.57	0.53 -2.16			2.67 1.63	-0.05 -0.78	3.17 1.51	-1.18			0.80 -2.29	3.02 2.54	31
MAXIMUM	3.59		4.27		4.64		4.91		NR		NR		MAXIMUM
MINIMUM	-2.77		-2.90		-3.31		-2.70		NR		NR		MINIMUM

NR - NO RECORD

LOCATION: LAT. 38 02 27, LONG. 122 08 04, SW SEC. 6, T2N, R2W,  
ON CHANNEL SIDE OF WHARF IMMEDIATELY SE OF BENICIA.PERIOD OF RECORD: 1929 TO DATE  
INTERMITTENT 1929 TO 1940

TABLE R-12 (CONTINUED)  
DAILY TIDES  
E03300 SUISIN BAY AT BENICIA  
(APRIL 1, 1974, THROUGH SEPTEMBER 30, 1974)

DATE	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		DATE
1	0.81 -1.92	3.45 3.08	-1.19 2.00	2.30 3.15	-2.15 -0.25	2.15 3.78	-2.31 0.49	2.15 3.82	-2.25 0.09	2.18	3.12 2.71	-1.79 -0.77	1
2	-0.09 -2.05	3.32 3.25	-1.80 -1.79	2.30 3.42	-2.39 0.05	2.31 3.90	-2.36 0.53	2.23 3.80	3.50 2.47	-2.08 0.13	3.00 2.90	-1.62 -0.97	2
3	-0.79 -2.04	3.28 3.46	-2.19 -1.39	2.44 3.65	-2.55 0.21	2.41	-2.31 0.34	2.26	3.45 2.51	-1.97 -0.05	2.82 3.00	-1.40 -1.07	3
4	-1.35 -1.75	3.35 3.92	-2.35 -0.99	2.46 3.72	3.85 2.35	-2.75 0.32	3.61 2.21	-2.54 0.34	3.30 2.58	-1.95 -0.26	2.70 3.13	-1.13 -1.25	4
5	-1.36 -1.09	3.65	-2.59 -0.32	2.54	3.53 2.21	-3.02 0.43	3.57 2.34	-2.41 0.35	3.03 2.68	-1.85 -0.54	2.43 3.23	-0.97 -1.42	5
6	4.20 3.16	-1.79 1.00	3.95 2.58	-2.79 0.06	3.46 2.37	-2.95 0.56	3.48 2.40	-2.21 0.16	2.64 2.72	-1.77 -0.61	2.15 3.25	-0.48 -1.50	6
7	3.88 3.01	-2.16 -0.40	3.84 2.48	-2.79 0.15	3.38 2.56	-2.78 0.70	3.16 2.33	-2.25 -0.05	2.40 2.88	-1.36 -0.75	1.93 3.32	0.05 -1.52	7
8	4.10 3.16	-1.99 0.18	3.74 2.48	-2.68 0.51	3.32 2.78	-2.60 0.85	2.75 2.62	-1.94 0.05	2.04 3.06	-1.16 -0.76	1.75 3.34	0.43	8
9	4.26 2.92	-1.85 0.12	3.56 2.38	-2.69 0.55	3.09 2.72	-2.21 0.66	2.53 2.59	-1.90 -0.29	1.81 3.31	-0.53	-1.69 0.71	1.83 3.32	9
10	3.35 2.06	-2.45 0.31	3.12 2.10	-2.85 0.61	2.58 2.76	-1.95 0.47	2.03 2.65	-1.68 -0.65	-0.96 -0.16	1.55 3.35	-1.88 0.77	2.05 3.52	10
11	3.05 2.02	-2.09 0.71	2.65 2.12	-2.69 0.81	2.12 2.75	-1.71	1.37 2.71	-1.38	-1.35 0.36	1.56 3.52	-2.04 0.47	2.42 3.62	11
12	2.82 1.96	-1.82 0.91	2.36 2.08	-2.39	-0.04 -1.43	1.64 2.80	-1.09 -0.83	1.10 2.89	-1.51 0.70	1.86 3.72	-1.94 0.13	2.66 3.76	12
13	2.58 1.94	-1.49	0.41 -1.98	1.64 2.00	-0.50 -0.91	1.33 2.94	-1.47 -0.32	1.05 3.22	-1.77 0.59	2.03 3.85	-1.92 -0.36	2.89 3.70	13
14	0.81 -1.49	2.26 2.06	0.14 -1.70	1.34 2.31	-1.18 -0.57	1.22 3.07	-1.92 0.14	1.24 3.48	-2.20 0.27	2.19 3.93	-1.95 -1.07	3.01	14
15	0.65 -1.49	2.00 2.18	-0.42 -1.36	1.26 2.48	-1.80 -0.25	1.41 3.41	-2.19 0.30	1.55 3.70	-2.34 -0.13	2.36 3.86	3.54 3.18	-1.96 -1.50	15
16	0.25 -1.29	2.02 2.42	NR	NR	-2.06 0.16	1.81 3.88	-2.47 0.34	1.87 3.95	-2.51 -0.68	2.41	3.31 3.41	-1.78 -1.74	16
17	0.00 -1.19	2.20 2.85	NR	NR	-2.38 0.43	2.09 4.18	-2.59 0.16	2.10 4.14	3.77 2.56	-2.61 -1.02	3.03 3.59	-1.60 -1.90	17
18	-0.79 -1.32	2.36 2.76	NR	NR	-2.47 0.50	2.43 4.35	-2.76 -0.12	2.26	3.52 2.80	-2.57 -1.30	2.89 3.69	-1.21 -1.95	18
19	-1.52 -1.15	2.11 2.94	NR	NR	-2.75 0.28	2.47	4.15 2.44	-2.80 -0.38	3.22 2.95	-2.39 -1.63	2.63 3.65	-0.86 -1.90	19
20	-2.09 -0.99	2.21 3.16	NR	NR	4.28 2.49	-3.10 0.12	4.00 2.65	-2.71 -0.72	2.81 3.21	-2.10 -1.64	2.38 3.51	-0.35 -1.81	20
21	-2.38 -0.79	2.38	NR	NR	4.26 2.73	-2.96 0.11	3.72 2.86	-2.65 -0.83	2.53 3.37	-1.72 -1.66	2.21 3.31	0.19	21
22	3.52 2.50	-2.62 -0.39	3.72 2.12	-3.55 0.01	4.08 2.79	-2.86 -0.26	3.42 3.17	-2.33 -0.92	2.63 3.34	-1.22 -1.73	-1.85 0.63	3.15 3.12	22
23	3.96 2.70	-2.70 0.01	3.85 2.31	-3.45 0.06	3.72 2.78	-2.80 -0.54	2.98 3.35	-1.93 -0.99	1.82 3.39	-0.61	-1.74 0.79	2.13 3.02	23
24	4.01 2.55	-2.86 0.20	3.75 2.26	-3.45 -0.09	3.05 2.81	-2.76 -0.94	2.52 3.50	-1.56	-1.72 0.13	1.84 3.39	-1.73 0.66	2.28 2.80	24
25	3.81 2.40	-3.10 0.40	3.44 2.28	-3.49 -0.19	2.34 2.80	-2.71	-1.28 -1.11	2.02 3.56	-1.67 0.51	1.97 3.30	-1.80 0.26	2.27 2.68	25
26	3.64 2.11	-3.09 0.31	3.14 2.66	-3.15 -0.09	-1.32 -2.19	1.73 3.04	-1.34 -0.25	1.80 3.62	-1.87 0.43	1.95 3.11	-1.89 -0.14	2.40 2.80	26
27	3.04 2.00	-3.29 0.35	2.86 3.01	-2.58	-1.65 -1.50	1.36 3.24	-1.61 -0.03	1.68 3.47	-2.08 0.26	2.09 3.11	-1.69 -0.43	2.61 2.78	27
28	2.75 2.26	-2.99	-0.39 -2.12	2.48 3.18	-1.98 -0.63	1.45 3.47	-1.94 0.25	1.69 3.39	-2.09 0.06	2.18 3.14	-1.64 -0.86	2.70 2.66	28
29	0.11 -2.79	2.45 2.46	-0.99 -1.96	2.01 3.31	-2.16 -0.02	1.68 3.68	-2.16 0.28	1.84 3.38	-2.10 -0.08	2.27 3.14	-1.65 -1.40	2.73	29
30	-0.46 -2.45	2.28 2.85	-1.59 -1.25	1.86 3.62	-2.06 0.27	2.02 3.81	-2.21 0.26	2.05 3.42	-2.07 -0.38	2.38	2.54 2.78	-1.56 -1.68	30
31			-1.79 -0.65	2.12 3.72			-2.27 0.20	2.10 3.45	3.14 2.52	-1.95 -0.59			31
MAXIMUM	4.26		NR		4.35		4.15		3.93		3.76		MAXIMUM
MINIMUM	-3.29		NR		-3.10		-2.80		-2.61		-2.04		MINIMUM

NR = NO RECORD

MAXIMUM GAGE HEIGHT OF RECORD: 5.7 - 4/6/58

ZERO OF GAGE: 1929 TO 1940 -2.21 USCGS  
1940 TO 1942 -5.00 USCGS  
1942 TO DATE 0.00 USCGS

TABLE B - 13

# CONTENTS OF RESERVOIRS (IN ACRE FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A55527	FRENCHMAN LAKE NEAR CHILCOOT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	38,388	*38,199	NR	40,763	45,414	47,038	54,299	56,574	55,540	NR	44,775	40,346	1
2	38,401	NR	NR	*40,750	45,470	47,209	54,627	56,622	55,287	NR	44,567	40,190	2
3	38,363	NR	*39,072	NR	45,540	47,309	54,862	56,638	55,082	NR	44,374	39,880	3
4	38,338	NR	*39,098	NR	45,582	47,424	55,161	56,654	54,831	NR	44,250	39,854	4
5	38,312	NR	NR	NR	45,610	47,553	55,413	56,702	54,580	49,603	44,072	39,725	5
6	38,300	NR	NR	NR	45,638	47,668	55,619	56,734	54,331	49,412	43,921	39,622	6
7	38,312	NR	NR	*40,959	45,694	47,797	55,825	56,798	54,019	49,251	43,743	39,481	7
8	38,300	NR	NR	NR	45,722	47,869	55,984	56,846	53,787	49,221	43,648	39,353	8
9	38,300	NR	NR	*41,051	45,778	47,956	56,143	56,846	53,539	49,133	43,552	39,225	9
10	38,262	NR	39,276	NR	45,820	48,057	56,254	56,878	53,246	49,075	43,484	39,123	10
11	38,262	NR	39,315	NR	45,877	48,187	56,350	56,862	52,939	49,046	43,416	39,021	11
12	38,262	NR	39,315	NR	45,891	48,303	56,382	56,814	52,617	49,002	43,321	38,970	12
13	38,262	NR	39,430	NR	45,919	48,492	56,414	56,750	52,327	48,987	43,213	38,919	13
14	38,237	NR	39,455	*41,183	45,961	48,754	56,430	56,686	52,084	48,943	43,077	38,869	14
15	38,237	NR	39,507	NR	46,017	49,031	56,494	56,622	51,872	48,841	42,902	38,818	15
16	38,237	NR	39,519	NR	46,031	49,309	56,542	56,542	51,645	48,768	42,686	38,754	16
17	38,224	NR	39,609	*42,378	46,074	49,559	56,542	56,478	51,495	48,666	42,512	38,716	17
18	38,224	NR	39,674	NR	46,116	49,839	56,398	56,462	51,404	48,506	42,378	38,653	18
19	38,174	NR	39,686	NR	46,172	50,091	56,286	56,414	51,344	48,303	42,244	38,590	19
20	38,187	NR	39,699	NR	46,201	50,328	56,382	56,382	51,314	48,100	42,124	38,565	20
21	38,149	NR	NR	*44,085	46,243	50,581	56,462	56,350	51,284	47,913	42,017	38,527	21
22	38,249	NR	NR	NR	46,285	50,790	56,542	56,334	51,254	47,711	41,910	38,476	22
23	38,275	NR	NR	NR	46,328	50,999	56,558	56,302	51,194	47,496	41,778	38,426	23
24	38,275	NR	NR	NR	46,370	51,239	56,622	56,270	51,119	47,281	41,658	38,363	24
25	38,275	NR	NR	NR	46,427	51,464	56,638	56,270	51,029	47,066	41,526	38,312	25
26	38,275	NR	40,061	NR	46,497	51,691	56,638	56,254	50,984	46,810	NR	38,262	26
27	38,262	*38,856	40,138	NR	46,540	51,902	56,622	56,238	50,879	46,483	NR	38,162	27
28	38,249	NR	40,216	NR	46,653	52,267	56,606	56,191	50,700	46,172	40,973	38,136	28
29	38,224	NR	40,489	NR	NR	52,663	56,558	56,175	50,566	45,778	40,815	38,074	29
30	38,212	38,970E	40,593	NR	NR	53,385	56,574	56,000	50,432	45,470	40,671	38,049	30
31	38,237	NR	40,711	45,345E	NR	53,802	NR	55,746	NR	45,122	40,489	NR	31
CHNG	- 201	+ 733	+1,741	+4,634	+1,308	+7,149	+2,772	- 828	-5,314	-5,310	-4,633	-2,440	CHNG
MAX.	38,401	NR	40,711	NR	46,653	53,802	56,638	56,878	55,540	NR	44,775	40,346	MAX.
MIN.	38,149	NR	NR	NR	45,414	47,038	54,299	55,746	50,432	45,122	40,489	38,049	MIN.

## WATER YEAR SUMMARY

E - ESTIMATED  
NR - NO RECORD  
\* - STAFF READINGS FROM  
FIELD PERSONNEL

MAXIMUM					MINIMUM				
CONTENT	GAGE HT.	MO.	DAY	TIME	CONTENT	GAGE HT.	MO.	DAY	TIME
56,878	5,588.9	5	10	2400	38,049	5,575.7	9	30	2400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
39 53 36	120 11 17	NE 33 24N 16E					JAN 1962-DATE	1962		5500.00 USGS
Station located at toe of Frenchman Dam on Little Last Chance Creek, 7.1 miles north of Chilcoot.										
Frenchman Dam was completed in October 1961 and storage began in November 1961. The lake has a usable capacity of 53,582 acre-feet between elevations 5517 feet (invert of intake) and 5588 feet (crest of spillway). Not available for release, 1,835 acre-feet.										
Daily content given is shown at 2400 hours.										
Drainage area is 81.1 square miles.										

TABLE B - 13 (CONT.)  
CONTENTS OF RESERVOIRS  
(IN ACRE FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A55383	LAKE DAVIS NEAR PORTOLA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	71,349	*70,323	*75,118	NR	82,093	83,728	86,111	84,895	83,608	80,750	78,061	74,476	1
2	NR	NR	NR	77,752	82,053	84,090	86,111	84,855	83,608	80,671	78,022	74,363	2
3	NR	NR	NR	77,830	82,053	84,049	86,070	84,774	83,568	80,514	77,907	74,251	3
4	NR	NR	NR	77,907	82,053	83,929	86,029	84,693	83,568	80,397	77,830	74,175	4
5	NR	NR	NR	77,984	82,093	83,768	86,029	84,613	83,528	80,279	77,752	74,063	5
6	NR	NR	NR	78,138	82,014	83,608	85,948	84,613	83,448	80,161	77,637	73,875	6
7	NR	NR	*75,194	78,138	81,974	83,488	85,867	84,573	83,368	80,005	77,521	73,650	7
8	NR	NR	NR	78,216	81,974	83,208	85,948	84,573	83,048	80,632	77,406	73,426	8
9	NR	70,799	NR	78,216	82,014	82,968	86,029	84,613	82,968	80,711	77,291	73,202	9
10	NR	71,423	NR	78,216	81,934	82,729	85,908	84,573	82,889	80,593	77,137	73,090	10
11	NR	72,087	*75,383	78,177	81,895	82,490	85,826	84,532	82,809	80,475	77,022	72,941	11
12	*70,616	72,792	NR	78,177	81,934	82,331	85,745	84,452	82,729	80,357	76,869	72,829	12
13	NR	73,165	NR	78,409	81,895	82,172	85,664	84,291	82,650	80,240	76,716	72,718	13
14	NR	73,202	*75,800	78,719	81,895	81,974	85,583	84,130	82,530	80,122	76,601	72,606	14
15	NR	73,202	NR	79,692	81,816	81,819	85,624	83,929	82,451	79,966	76,448	72,495	15
16	NR	73,688	NR	80,947	82,014	81,776	85,624	83,768	82,411	79,848	76,334	72,384	16
17	NR	74,025	*75,953	81,657	81,974	81,736	85,664	83,768	82,292	79,731	76,219	72,273	17
18	*70,287	74,175	NR	82,769	81,974	81,776	85,867	83,728	82,172	79,614	76,067	72,161	18
19	*70,214	74,213	NR	83,608	82,172	81,855	85,786	83,648	82,133	79,497	75,991	72,087	19
20	NR	74,213	NR	83,849	82,172	81,855	85,664	83,568	82,053	79,380	75,838	71,976	20
21	NR	74,213	NR	83,728	82,411	81,855	85,583	83,448	81,934	79,263	75,724	71,903	21
22	NR	74,288	NR	83,608	82,371	81,895	85,583	83,408	81,776	79,146	75,611	71,792	22
23	*70,616	74,363	NR	83,448	82,292	81,934	85,705	83,288	81,697	79,069	75,497	71,718	23
24	NR	74,251	NR	83,328	82,252	81,974	85,745	83,328	81,618	78,913	75,383	71,607	24
25	NR	74,251	NR	83,128	82,172	82,014	85,664	83,368	81,420	78,835	75,231	71,534	25
26	NR	74,288	NR	82,928	82,451	82,133	85,502	83,368	81,302	78,719	75,118	71,460	26
27	NR	74,363	NR	82,689	82,451	82,530	85,300	83,408	81,183	78,603	75,004	71,313	27
28	NR	74,401	NR	82,530	82,968	82,809	85,097	83,408	81,104	78,486	74,929	71,239	28
29	NR	74,665	NR	82,252		84,049	84,976	83,488	80,947	78,370	74,816	71,129	29
30	*70,433	74,778	NR	82,053		85,421	84,936	83,448	80,829	78,216	74,702	71,019	30
31	70,360E		77,675E	82,014		85,664		83,448		78,177	74,589		31
CHNG MAX. MIN.	-1,026 NR	+4,418 NR	+2,897 NR	+4,339 83,849 NR	+ 954 82,968 81,816	+2,696 85,664 81,736	- 728 86,111 84,936	-1,488 84,895 83,288	-2,619 83,608 80,829	-2,652 80,750 78,177	-3,588 78,061 74,589	-3,570 74,476 71,019	CHNG MAX. MIN.

WATER YEAR SUMMARY

8 - ESTIMATED  
NR - NO RECORD  
\* - STAFF READINGS FROM  
FIELD PERSONNEL

MAXIMUM					MINIMUM				
CONTENT	GAGE HT.	MO.	DAY	TIME	CONTENT	GAGE HT.	MO.	DAY	TIME
86,111	5,775.4	4	1	2400	NR				

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
39 53 03	120 38 31	SW 1 23N 13E					DEC 1966-DATE	1966		5700 00 USCGS
Station located near left abutment of Grizzly Valley Dam on Big Grizzly Creek, 5.3 miles north of Portola. Grizzly Valley Dam, cresting Lake Davis, was completed in September 1967; however, storage by the contractor in order to test the outlet works, began on October 18, 1966. The lake has a usable capacity of 84,043 acre-feet between elevations 5700 feet (top of low-level intake) and 5775 feet (crest of spillway). Not available for release 108 acre-feet. Daily content given is shown at 2400 hours. Drainage area is 44.0 square miles.										

**TABLE B - 13 (CONT.)**  
**CONTENTS OF RESERVOIRS**  
 (IN ACRE FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A54473	ANTELOPE LAKE NEAR BOULDER CREEK GUARD STATION

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	19,318	18,937	NR	23,138	23,166	23,299	24,016	23,833	23,594	21,977	22,115	21,420	1
2	19,293	18,929	NR	23,072	23,147	NR	23,910	23,910	23,555	21,986	22,124	21,402	2
3	19,259	18,920	*21,554	23,034	23,138	NR	23,766	23,939	NR	21,986	22,124	21,375	3
4	19,233	18,904	NR	22,997	23,119	NR	23,708	23,967	NR	21,995	22,124	21,339	4
5	19,216	NR	NR	22,997	23,091	NR	23,680	24,006	NR	21,995	22,124	21,312	5
6	19,199	NR	NR	22,987	23,062	NR	23,641	24,083	NR	21,995	22,124	21,276	6
7	19,191	NR	NR	22,968	23,053	NR	23,622	24,199	NR	21,995	22,105	21,257	7
8	19,191	*19,055	NR	22,940	23,053	NR	23,632	24,325	NR	22,115	22,078	21,230	8
9	19,174	*19,216	NR	22,921	23,044	NR	23,632	24,422	NR	22,179	22,050	21,203	9
10	19,148	NR	21,837	22,903	23,044	NR	23,603	24,374	NR	22,179	22,023	21,167	10
11	19,123	NR	NR	22,893	23,034	NR	23,584	24,277	NR	NR	21,995	21,140	11
12	19,114	NR	NR	22,893	23,025	NR	23,584	24,180	NR	NR	21,949	21,104	12
13	19,098	NR	22,066	22,931	23,025	23,147	23,575	24,083	NR	NR	21,922	21,077	13
14	19,072	NR	22,103	23,034	23,025	23,176	23,575	23,996	22,978	NR	21,912	21,051	14
15	19,055	NR	22,140	23,641	23,015	23,232	23,603	23,948	22,762	22,318	21,876	21,015	15
16	19,038	NR	22,177	23,977	23,044	23,289	23,641	23,881	22,585	22,309	21,857	20,997	16
17	19,013	NR	22,297	24,054	23,015	23,365	23,727	23,794	22,399	22,309	21,821	20,961	17
18	18,988	NR	22,352	24,122	23,025	23,489	23,766	23,737	22,177	22,299	21,802	20,943	18
19	18,971	NR	22,417	24,335	23,062	23,527	23,727	23,680	21,974	22,318	21,775	20,907	19
20	18,963	NR	22,464	24,093	23,034	23,527	23,708	23,622	21,873	22,318	21,757	20,889	20
21	18,937	NR	22,547	23,833	23,044	23,527	23,718	23,594	21,919	22,318	21,738	20,863	21
22	19,022	NR	22,594	23,670	23,044	23,527	23,766	23,594	21,947	22,318	21,702	20,836	22
23	19,055	NR	22,640	23,546	23,015	23,527	23,785	23,613	21,974	22,309	21,684	20,809	23
24	19,055	NR	22,678	23,460	23,006	23,527	23,747	23,651	21,993	22,290	21,647	20,782	24
25	19,038	NR	22,706	23,394	23,015	23,546	23,699	23,708	22,002	22,281	21,629	20,756	25
26	19,030	*21,094	22,781	23,337	23,034	23,555	23,632	23,775	22,020	22,262	21,602	20,729	26
27	19,022	NR	22,846	23,289	23,025	23,622	23,603	23,814	22,020	22,244	21,574	20,702	27
28	18,988	NR	22,893	23,251	23,100	23,651	23,575	23,804	22,020	22,225	21,547	20,676	28
29	18,979	NR	23,204	23,232	23,900	23,900	23,613	23,756	22,020	22,207	21,538	20,649	29
30	18,971	21,382E	23,232	23,185	24,228	24,228	23,708	23,699	22,029	22,188	21,511	20,622	30
31	18,954		23,214	23,176	24,064	24,064		23,641		22,124	21,475		31
CHNG MAX. MIN.	- 407 19,318 18,937	+2,428 NR NR	+1,832 23,232 NR	- 38 24,335 22,893	- 76 23,166 23,006	+ 964 24,228 NR	- 356 24,016 23,575	- 67 24,422 23,594	-1,612 23,594 21,873	+ 147 22,318 21,977	- 649 22,124 21,475	- 853 21,420 20,622	CHNG MAX. MIN.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD  
 \* - STAFF READINGS FROM  
 FIELD PERSONNEL

MAXIMUM					MINIMUM				
CONTENT	GAGE HT.	MO.	DAY	TIME	CONTENT	GAGE HT.	MO.	DAY	TIME
24,422	5,003.9	5	9	2400	NR				

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO	
40 10 42	120 36 20	SE 22 27N 12E					JAN 1964-DATE	1964		4900.00 USCGS
Station located at toe of Antelope Dam on Indian Creek, 1.3 miles south of Boulder Creek Guard Station, 12 miles northeast of Genesee.  Antelope Dam was completed in July 1964; however, usable storage began on November 25, 1963. The lake has a usable capacity of 22,239 acre-feet between elevations 4950 feet (lip of intake tower) and 5002 feet (crest of spillway).  Daily content given is shown at 2400 hours.  Drainage area is 68.6 square miles.										

**TABLE B - 13 (CONT.)**  
**CONTENTS OF RESERVOIRS**  
 (IN THOUSANDS OF ACRE FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A51141	LAKE OROVILLE NEAR OROVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2,727.8	2,069.8	2,803.0	2,811.6	2,825.0	2,902.5	3,342.3	3,228.5	3,448.8	3,506.4	3,165.0	2,749.0	1
2	2,726.4	2,073.2	2,799.5	2,811.4	2,821.5	2,897.9	3,320.6	3,234.3	3,467.4	3,495.7	3,149.6	2,741.8	2
3	2,727.6	2,077.1	2,790.8	2,805.4	2,815.7	2,975.6	3,278.1	3,243.6	3,472.6	3,484.3	3,142.6	2,729.5	3
4	2,721.3	2,074.1	2,781.7	2,797.9	2,809.2	2,991.0	3,230.9	3,258.0	3,480.5	3,484.6	3,142.9	2,714.8	4
5	2,712.8	2,066.2	2,772.8	2,796.7	2,798.6	2,994.4	3,208.9	3,278.1	3,485.5	3,476.0	3,126.6	2,701.4	5
6	2,715.4	2,065.1	2,761.9	2,801.2	2,786.5	2,997.1	3,191.5	3,290.8	3,489.6	3,475.7	3,111.6	2,682.4	6
7	2,718.2	2,064.3	2,751.0	2,802.9	2,779.2	3,001.8	3,175.5	3,305.5	3,492.4	3,475.5	3,092.6	2,675.7	7
8	2,716.1	2,063.1	2,739.3	2,799.2	2,776.4	3,002.3	3,163.1	3,322.6	3,505.3	3,472.1	3,073.4	2,673.1	8
9	2,714.2	2,067.5	2,728.4	2,790.1	2,775.4	2,996.8	3,153.3	3,340.1	3,523.1	3,469.6	3,060.6	2,661.4	9
10	2,711.8	2,071.4	2,718.3	2,780.0	2,789.2	2,986.6	3,148.3	3,355.5	3,523.8	3,464.0	3,051.2	2,641.1	10
11	2,711.4	2,068.3	2,708.1	2,769.8	2,787.9	2,987.3	3,150.4	3,366.6	3,525.9	3,451.9	3,043.0	2,628.2	11
12	2,710.1	2,064.4	2,698.9	2,774.8	2,789.5	2,998.3	3,153.6	3,382.3	3,529.5	3,435.9	3,032.7	2,616.3	12
13	2,712.0	2,059.4	2,693.5	2,787.9	2,787.9	3,008.9	3,154.4	3,384.0	3,530.0	3,419.1	3,013.0	2,601.9	13
14	2,710.6	2,046.4	2,685.0	2,802.6	2,788.8	3,014.0	3,155.4	3,378.7	3,530.9	3,409.8	2,994.4	2,597.2	14
15	2,700.1	2,031.8	2,693.2	2,893.3	2,785.7	3,019.2	3,157.4	3,379.9	3,530.0	3,399.1	2,979.6	2,593.3	15
16	2,695.4	2,023.3	2,702.7	2,963.9	2,798.3	3,024.0	3,159.9	3,383.1	3,535.2	3,384.2	2,961.1	2,581.2	16
17	2,694.9	2,022.0	2,703.8	3,007.9	2,807.0	3,028.5	3,159.6	3,384.5	3,531.9	3,368.6	2,950.3	2,564.6	17
18	2,689.3	2,010.2	2,701.2	3,019.2	2,818.8	3,033.3	3,163.1	3,387.4	3,528.1	3,351.2	2,948.9	2,546.0	18
19	2,682.6	1,998.9	2,696.3	3,047.5	2,826.8	3,038.3	3,161.9	3,387.9	3,523.8	3,337.6	2,935.0	2,532.1	19
20	2,686.3	1,989.6	2,695.9	3,036.0	2,826.1	3,029.2	3,161.4	3,385.9	3,519.1	3,330.9	2,915.2	2,517.3	20
21	2,689.6	1,977.3	2,705.6	3,004.9	2,827.6	3,041.1	3,162.2	3,380.2	3,514.2	3,323.3	2,896.8	2,507.8	21
22	2,689.2	1,960.5	2,716.9	2,974.8	2,831.2	3,039.0	3,167.9	3,375.8	3,511.6	3,313.7	2,878.4	2,506.5	22
23	2,685.7	1,945.9	2,721.2	2,948.5	2,840.3	3,032.5	3,174.6	3,376.2	3,513.9	3,295.9	2,864.8	2,492.6	23
24	2,687.1	1,932.7	2,727.8	2,921.6	2,854.2	3,025.0	3,182.0	3,375.8	3,512.8	3,278.1	2,851.0	2,470.9	24
25	2,689.7	1,917.0	2,734.3	2,892.5	2,853.9	3,024.8	3,187.4	3,385.1	3,511.6	3,261.8	2,851.2	2,448.7	25
26	2,689.8	1,902.8	2,733.3	2,872.3	2,849.5	3,035.2	3,191.2	3,404.0	3,508.1	3,245.4	2,839.3	2,431.8	26
27	2,694.6	1,887.8	2,740.1	2,859.0	2,843.9	3,062.6	3,198.3	3,421.5	3,504.3	3,237.5	2,821.0	2,415.2	27
28	2,699.6	1,870.7	2,750.3	2,850.7	2,847.6	3,093.9	3,209.1	3,433.4	3,498.1	3,235.0	2,800.6	2,410.6	28
29	2,696.3	1,855.8	2,780.3	2,841.6		3,181.7	3,218.4	3,439.9	3,504.5	3,221.7	2,781.3	2,411.3	29
30	2,693.2	1,840.1	2,797.8	2,830.7		3,300.1	3,222.7	3,441.5	3,513.1	3,202.2	2,761.7	2,397.0	30
31	2,687.2		2,802.9	2,825.7		3,326.2		3,442.1		3,184.0	2,757.7		31
CHNG	- 40.6	- 229.7	- 0.1	+ 14.1	+ 22.6	+ 423.7	- 119.6	+ 213.6	+ 64.3	- 322.4	- 407.3	- 352.0	CHNG
MAX.	2,727.8	2,077.1	2,803.0	3,047.5	2,854.2	3,326.2	3,342.3	3,442.1	3,535.2	3,506.4	3,165.0	2,749.0	MAX.
MIN.	2,682.6	1,840.1	2,685.0	2,769.8	2,775.4	2,897.9	3,148.3	3,228.5	3,448.8	3,184.0	2,757.7	2,397.0	MIN.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD

MAXIMUM					MINIMUM				
CONTENT	GAGE HT.	MO.	DAY	TIME	CONTENT	GAGE HT.	MO.	DAY	TIME
3,535.2	899.85	6	16	2400	1,840.1	766.86	11	30	2400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
39 32 06	121 28 24	SW 1 19N 4E						Nov 1967-DATE	1967	0.47 USCCS

Recorder located near intake structure at left end of Oroville Dam, on the Feather River, 4 miles northeast of Oroville. Lake Oroville has a normal gross storage capacity of 3,538,000 acre-feet at the normal maximum water surface elevation of 900 feet. The active operating storage capacity is 2,686,000 acre-feet above the elevation 640 feet (minimum power pool). Drainage area is 3,611 square miles. Storage began November 14, 1967. Daily content given is shown at 2400 hours.

**TABLE B - 13 (CONT.)**  
**CONTENTS OF RESERVOIRS**  
 (IN THOUSANDS OF ACRE FEET)

WATER YEAR	STATION NO.	STATION NAME
1974	A65105	CAMP FAR WEST RESERVOIR NEAR SHERIDAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	62.4	65.0	110.5	107.9	107.0	114.6	113.5	106.1	105.9	103.5	95.0	81.1	1
2	62.5	65.2	108.5	107.4	107.0	112.0	111.1	106.4	105.9	103.1	94.2	80.8	2
3	62.5	65.3	107.4	107.2	106.8	109.4	109.6	106.4	105.9	102.7	93.7	80.6	3
4	62.5	65.4	107.0	106.8	106.8	108.3	108.7	106.6	105.9	102.1	93.3	80.3	4
5	62.5	65.9	105.9	107.0	106.6	108.1	108.3	106.4	105.9	101.6	92.9	80.1	5
6	62.5	66.3	105.9	107.7	106.6	107.9	108.1	106.4	105.9	100.8	92.4	80.1	6
7	62.8	67.8	105.9	107.7	106.6	108.5	107.7	106.4	105.7	100.5	92.0	80.0	7
8	63.1	68.9	105.9	107.4	106.6	108.3	107.4	106.4	105.7	100.8	91.4	79.8	8
9	63.2	69.5	105.9	107.0	106.6	107.9	107.4	106.4	105.7	102.1	91.1	79.5	9
10	63.1	72.4	106.1	106.8	106.6	107.7	107.4	106.4	105.7	102.5	90.5	79.2	10
11	63.1	77.1	106.1	106.8	106.6	107.7	107.2	106.4	105.7	102.9	89.5	79.0	11
12	63.1	82.5	106.1	107.4	106.6	108.5	107.0	106.1	105.5	102.7	89.0	78.8	12
13	62.9	85.3	107.0	107.7	106.8	108.1	107.0	106.1	105.3	102.7	88.4	78.8	13
14	62.9	89.9	106.6	109.0	106.6	107.7	107.0	106.1	105.3	102.5	88.0	78.8	14
15	62.9	92.9	106.4	110.7	106.6	107.7	107.0	106.1	105.3	102.3	87.3	78.7	15
16	62.8	97.6	106.4	109.8	106.6	107.4	107.0	106.1	105.1	102.0	86.7	78.8	16
17	62.8	105.3	106.4	111.1	106.6	107.4	107.0	106.1	105.1	101.6	86.4	78.8	17
18	62.6	109.0	106.6	110.9	106.6	107.2	106.8	106.1	104.8	101.4	85.8	79.0	18
19	62.5	108.1	106.4	110.0	108.3	107.0	106.8	106.1	105.1	101.0	85.4	79.2	19
20	62.5	107.4	106.4	109.2	107.7	106.8	106.8	106.1	105.3	100.5	85.1	79.5	20
21	62.5	107.0	107.0	108.5	107.2	106.6	106.8	106.1	105.5	100.3	84.6	79.6	21
22	62.6	106.8	107.7	108.1	107.2	106.6	106.6	106.1	105.5	99.5	84.3	79.8	22
23	63.1	106.6	107.2	107.9	107.0	106.6	106.6	106.1	105.5	99.3	83.8	80.1	23
24	63.2	106.6	106.8	107.4	107.0	106.6	106.8	106.1	105.5	98.8	83.7	80.3	24
25	63.3	106.6	106.6	107.2	106.8	106.6	106.8	106.1	105.7	98.4	83.3	80.4	25
26	63.5	106.6	107.0	107.2	106.8	106.8	106.6	106.1	105.5	97.8	83.0	80.6	26
27	63.8	106.1	109.4	107.0	106.8	108.1	106.6	105.9	105.3	97.3	82.5	80.8	27
28	64.0	106.1	109.6	107.0	107.0	109.4	106.6	105.9	104.8	96.9	82.5	80.9	28
29	64.3	106.4	111.5	107.0		110.7	106.6	105.9	104.6	96.3	82.1	81.1	29
30	64.5	108.7	109.4	106.8		112.6	105.9	105.9	103.8	96.1	81.7	81.4	30
31	64.9		108.5	106.8		110.5		105.9		95.6	81.4		31
CHNG	+2.5	+43.8	-0.2	-1.7	+0.2	+3.5	-4.6	0.0	-2.1	-8.2	-14.2	0.0	CHNG
MAX.	64.9	109.0	111.5	111.1	108.3	114.6	113.5	106.6	105.9	103.5	95.0	81.4	MAX.
MIN.	62.4	65.0	105.9	106.8	106.6	106.6	105.9	105.9	103.8	95.6	81.4	78.7	MIN.

**WATER YEAR SUMMARY**

E - ESTIMATED  
 NR - NO RECORD

MAXIMUM					MINIMUM				
CONTENT	GAGE HT.	MO.	DAY	TIME	CONTENT	GAGE HT.	MO.	DAY	TIME
115.7		3	2	0500	62.4		10	1	2400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.S.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
39 03 00	121 18 53	SW 21 14N 6E					MAR 1966-DATE	1966		0.00	USCGS

Station located near left abutment of Camp Far West Dam on the Bear River 6.4 miles east of Wheatland and 11.8 miles northwest of Sheridan. Camp Far West Reservoir, owned and operated by the South Sutter Irrigation District, began storage September 30, 1963. Station was installed March 1966, jointly by the South Sutter Irrigation District and the Department of Water Resources. The lake has a usable capacity of 139,600 acre-feet between the elevation 175.00 feet and 316.3 feet (top of spillway gate). Drainage area is 283 square miles. Daily content given is shown at 2400 hours.



TABLE B-14  
DAILY INFLOW

This table presents the daily inflow rates to Folsom, Shasta, and Whiskeytown Lakes. The daily inflow rates were computed from information about changes in storage, releases, spills, precipitation, and evaporation. The computed values represent the flow at each damsite if the dam did not exist.

**TABLE B - 14 (CONT.)**  
**DAILY INFLOW**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A21051	INFLOW TO SHASTA LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3,800	4,660	52,180	17,760	20,060	38,250	70,370	12,060	6,800	4,890	5,350	2,400	1
2	3,680	5,380	28,980	15,880	15,550	29,380	51,740	12,390	7,320	5,000	5,190	5,610	2
3	3,880	5,580	26,110	14,280	15,010	22,760	39,050	13,470	9,030	6,080	5,280	4,650	3
4	3,930	7,590	17,460	13,970	14,270	19,280	31,340	12,760	8,730	5,940	4,710	4,800	4
5	4,910	10,180	16,490	13,300	13,460	18,060	28,140	11,580	9,360	5,820	6,870	3,940	5
6	5,760	15,070	14,230	11,500	12,900	19,820	24,320	12,390	8,990	4,340	7,520	4,960	6
7	7,020	16,370	14,710	11,280	12,620	21,080	22,020	12,550	8,480	2,700	6,390	6,190	7
8	3,680	18,470	12,020	9,340	10,630	19,020	20,650	13,500	9,640	9,710	4,900	5,340	8
9	3,380	31,090	11,950	10,140	11,160	17,200	20,340	12,140	4,800	8,920	4,420	4,970	9
10	3,330	47,030	10,180	9,700	10,540	18,380	18,280	12,670	6,050	6,780	280	3,960	10
11	3,290	85,200	13,250	10,040	11,040	30,050	17,290	11,390	8,380	6,420	790	4,890	11
12	4,080	68,930	13,450	10,850	11,590	35,490	16,030	11,500	7,850	6,440	4,610	4,550	12
13	5,030	38,610	16,090	18,080	10,740	28,810	15,100	11,940	6,800	5,000	5,040	4,840	13
14	4,630	32,340	14,360	34,680	10,310	24,830	15,490	11,360	7,680	4,110	5,500	5,150	14
15	4,300	37,410	14,690	91,650	9,720	22,830	15,520	11,150	7,120	4,600	5,090	2,830	15
16	4,040	56,620	12,770	190,590	10,620	20,790	14,620	9,900	6,690	5,750	3,900	4,520	16
17	4,460	46,750	15,180	101,360	9,650	20,670	14,260	9,960	6,320	5,700	3,610	4,260	17
18	3,620	42,950	14,550	85,670	11,840	20,340	14,040	10,310	9,580	5,480	2,230	4,990	18
19	5,150	27,390	12,180	79,550	13,620	19,480	13,030	9,150	6,500	6,010	4,190	5,250	19
20	2,420	21,030	14,410	55,370	11,420	18,260	12,980	9,250	5,480	3,520	5,090	6,220	20
21	4,740	18,620	27,330	44,180	10,850	17,510	13,200	8,550	5,450	3,370	4,500	1,630	21
22	12,430	16,600	26,540	35,250	11,770	15,260	13,500	9,150	9,150	4,990	5,050	2,380	22
23	12,900	15,180	21,020	27,750	10,370	15,240	14,920	9,230	7,350	5,310	5,140	5,660	23
24	7,680	14,260	18,000	24,580	9,710	14,320	13,740	9,750	4,970	5,630	3,080	4,350	24
25	6,540	11,500	16,490	21,390	10,340	15,700	14,010	9,470	5,500	5,550	2,040	5,210	25
26	5,380	11,970	16,500	18,980	11,560	18,140	13,040	9,750	4,980	5,970	5,160	4,650	26
27	4,100	7,910	18,950	16,240	11,560	28,360	12,510	10,710	4,570	3,300	5,290	4,660	27
28	4,170	11,360	24,650	16,230	27,700	39,730	12,270	9,980	4,170	2,380	5,100	5,270	28
29	5,100	14,320	32,810	15,670		83,860	10,790	9,890	5,860	4,380	4,420	4,730	29
30	4,760	54,850	26,090	13,600		119,710	11,580	8,560	5,010	5,020	5,280	3,580	30
31	4,880		22,860	19,920		63,750		9,370		5,050	3,670		31
MEAN	5,067	26,507	19,241	34,154	12,522	28,915	20,139	10,833	6,954	5,295	4,506	4,548	MEAN
MAX.	12,900	85,200	52,180	190,590	27,700	119,710	70,370	13,500	9,640	9,710	7,520	6,220	MAX.
MIN.	2,420	4,660	10,180	9,340	9,650	14,320	10,790	8,550	4,170	2,380	280	1,630	MIN.
AC. FT.	311,890	1,577,320	1,183,120	2,099,140	695,430	1,777,930	1,198,370	666,120	413,780	325,610	277,080	270,630	AC. FT.

A - 25 hour day  
 B - 23 hour day

**WATER YEAR SUMMARY**

MEAN INFLOW 14,913	MAXIMUM					MINIMUM					TOTAL ACRE FEET 10,796,420
	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 43 10	122 25 10	NW 15 33N 5W				NOV 1942-DATE	NOV 1942-DATE	1942		0.00	USCGS

The figures contained herein are computed inflow to Shasta Lake and take into account change in storage, release, spill, precipitation and evaporation. They are representative of the natural flow which would pass the damsite (9.5 miles north of Redding) if the dam had not been constructed. Records furnished by USBR. Drainage area, excluding Goose Lake Basin, is 6,665 square miles.

Shasta Lake has a usable capacity of 4,377,000 acre-feet between elevations 737.75 and 1065.0 feet above mean sea level. Not available for release, 115,700 acre-feet.

TABLE B - 14 (CONT.)  
DAILY INFLOW  
(IN CUBIC FEET PER SECOND)

WATER YEAR													
STATION NO.		STATION NAME											
1974		A36171 INFLOW INTO WHISKEYTOWN LAKE											
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1,490	370	6,690	4,850	4,440	6,750	5,550	4,480	4,000	3,630	2,820	2,750	1
2	1,480	380	4,450	4,560	4,270	5,920	4,230	4,330	4,050	3,260	2,760	2,770	2
3	1,520	470	3,730	4,320	4,270	5,400	3,080	4,390	4,040	3,340	2,770	2,810	3
4	1,440	440	3,370	4,660	4,250	4,550	2,330	4,400	3,990	3,370	2,820	2,750	4
5	340	960	3,080	4,280	4,140	4,660	2,860	4,350	3,990	3,270	2,760	2,750	5
6	470	830	2,820	4,220	4,200	4,620	3,090	4,430	3,960	3,370	2,780	2,150	6
7	460	1,160	2,800	3,960	4,250	4,670	2,800	4,340	3,960	3,320	2,800	2,090	7
8	420	1,370	2,740	3,940	4,070	4,500	4,300	4,150	3,960	3,970	2,780	1,940	8
9	420	2,210	2,550	3,670	4,060	4,440	5,120	4,240	3,960	3,250	2,880	1,960	9
10	360	3,590	2,440	3,590	3,980	4,580	5,040	4,280	3,910	3,460	2,830	2,000	10
11	370	6,390	2,480	4,330	4,220	6,110	4,970	4,200	3,960	3,410	2,780	1,970	11
12	360	5,130	2,870	4,240	4,220	6,390	4,910	4,180	3,970	3,470	2,820	2,110	12
13	420	2,620	4,130	4,660	4,100	5,570	4,750	4,150	3,960	3,460	2,780	1,950	13
14	370	1,950	4,120	5,450	4,110	5,160	3,550	3,420	3,920	3,420	2,770	1,900	14
15	350	2,710	4,120	10,160	4,120	5,050	3,750	3,580	4,000	3,470	2,760	1,950	15
16	320	3,900	4,070	19,530	4,210	4,860	4,640	3,680	3,690	3,230	2,820	1,880	16
17	390	3,350	4,230	8,130	4,080	4,810	4,470	3,920	4,000	3,420	2,770	2,020	17
18	470	3,900	4,120	5,670	4,380	4,820	4,380	4,190	3,930	3,460	2,770	1,980	18
19	340	2,470	4,130	4,350	4,420	4,650	4,390	4,140	4,120	3,460	2,920	2,870	19
20	320	2,190	4,220	3,240	4,320	4,580	4,580	4,160	4,000	3,420	2,830	2,960	20
21	680	2,590	5,870	2,480	4,360	4,480	4,510	4,170	4,030	3,410	2,830	2,960	21
22	1,570	2,980	5,460	3,780	4,270	4,450	4,490	4,150	3,870	3,420	2,880	2,810	22
23	1,560	2,820	4,900	3,530	3,970	4,410	4,680	4,110	3,870	3,370	2,880	2,650	23
24	810	2,700	4,750	4,030	4,040	4,350	4,650	4,110	3,630	3,470	2,580	2,740	24
25	610	2,530	4,630	4,160	4,070	4,430	4,400	4,170	3,620	3,430	2,840	2,950	25
26	440	2,450	4,410	4,060	4,050	4,470	4,500	4,130	3,390	2,910	3,100	2,860	26
27	390	2,130	4,610	3,980	4,050	5,470	4,530	4,080	3,480	2,790	2,900	2,860	27
28	430 A	2,450	4,920	4,080	6,690	6,080	4,490	4,060	3,630	2,820	2,920	2,860	28
29	410	2,840	5,830	4,530		11,910	4,550	4,040	710	2,790	2,940	2,880	29
30	360	7,590	5,500	4,500		11,490	4,390	4,050	320	2,790	2,930	1,820	30
31	350		5,060	4,860		5,210		4,060		2,770	2,780		31
MEAN	636	2,582	4,165	5,026	4,272	5,446	4,266	4,134	3,643	3,304	2,826	2,432	MEAN
MAX.	1,570	7,590	6,690	19,530	6,690	11,910	5,550	4,480	4,120	3,970	3,100	2,960	MAX.
MIN.	320	370	2,440	2,480	3,970	4,350	2,330	3,420	320	2,770	2,580	1,820	MIN.
AC. FT.	39,150	153,660	256,070	308,680	237,250	334,890	253,850	254,170	216,760	203,170	173,750	144,700	AC. FT.

A - 25 hour day  
B - 23 hour day

WATER YEAR SUMMARY

MEAN		MAXIMUM					MINIMUM					TOTAL	
INFLOW		DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET	
3,558												2,576,100	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 37 03	122 31 31	32N 6W				MAY 1963-DATE	MAY 1963-DATE	1963		0.00	USCGS
The figures contained herein are computed inflow to Whiskeytown Reservoir and take into account change in storage, release, spill, precipitation, and evaporation. Records furnished by USBR. Drainage area is 200 square miles.											
Whiskeytown Reservoir has a usable capacity of 241,100 acre-feet between elevations 1100.0 feet and 1210.0 feet above mean sea level. Not available for release, 27,500 acre-feet.											

**TABLE B - 14 (CONT.)**  
**DAILY INFLOW**  
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	A71120	INFLOW TO FOLSOM LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1,320	1,580	12,830	9,840	6,510	20,620	25,040	8,070	8,520	1,730	2,270	1,190	1
2	1,350	1,450	6,360	7,930	6,320	34,980	24,390	8,490	8,570	2,760	2,360	1,000	2
3	1,140	1,330	4,920	7,280	5,030	17,220	17,660	8,350	8,240	3,290	2,670	1,640	3
4	1,200	1,320	3,960	7,300	4,650	12,170	13,820	9,020	8,290	1,950	1,760	2,700	4
5	1,300	1,550	4,430	7,100	5,090	10,510	11,580	7,980	7,800	1,930	1,940	2,180	5
6	1,410	2,160	3,500	9,220	4,830	9,870	10,910	8,430	7,550	2,860	2,410	2,460	6
7	2,210	4,580	3,710	8,620	4,940	9,310	9,810	9,170	7,840	1,370	2,680	2,110	7
8	1,430	5,280	3,840	7,620	5,180	9,700	9,190	9,780	7,570	3,420	2,570	1,660	8
9	1,410	3,840	4,320	7,330	5,070	8,540	10,220	9,840	7,270	6,060	2,510	1,660	9
10	1,500	4,380	4,440	6,970	4,440	7,430	9,200	9,760	6,700	9,830	1,900	2,420	10
11	1,440	14,020	4,710	6,810	3,770	7,760	9,060	9,280	6,480	7,160	1,820	2,290	11
12	1,270	22,760	4,480	7,000	4,900	9,930	8,390	9,070	6,070	4,460	1,760	2,430	12
13	1,340	13,020	6,360	7,260	4,920	9,650	8,390	8,600	6,050	4,080	2,520	2,340	13
14	1,610	9,900	5,950	8,490	4,820	8,530	7,690	8,290	5,920	3,040	2,330	2,300	14
15	1,320	5,770	5,410	20,160	4,700	8,440	7,920	8,360	6,140	2,090	2,630	1,540	15
16	1,660	5,330	5,160	17,350	5,060	8,540	7,950	8,040	5,810	2,310	2,230	1,760	16
17	1,280	10,300	5,440	35,590	4,190	7,680	8,330	7,660	5,430	2,740	1,680	2,420	17
18	1,410	13,110	6,400	22,030	3,300	8,190	8,490	7,320	4,440	2,740	1,290	2,460	18
19	1,220	7,240	5,630	26,020	6,070	8,130	8,030	7,130	4,610	2,150	1,370	2,540	19
20	1,710	5,920	5,230	19,160	6,540	7,760	6,930	6,660	4,400	2,450	2,190	2,380	20
21	1,550	5,740	6,020	14,280	6,060	7,620	6,740	5,870	4,440	1,850	2,240	2,380	21
22	1,930	4,810	7,560	11,790	5,750	6,940	7,540	5,920	4,580	1,500	1,960	1,800	22
23	1,810	3,890	6,280	11,040	5,760	6,810	8,410	6,270	3,670	2,300	2,380	1,790	23
24	2,070	4,490	5,630	9,580	4,790	6,040	8,490	5,950	3,450	2,290	2,470	2,680	24
25	1,860	3,880	4,920	9,140	4,330	6,620	7,740	7,770	3,860	2,230	1,530	2,600	25
26	1,620	3,950	5,470	8,420	5,540	7,280	7,490	8,120	2,540	2,220	1,580	2,690	26
27	1,570	3,950	11,050	7,230	5,420	8,650	7,330	8,510	2,540	1,860	2,390	2,550	27
28	1,400	4,000	14,880	6,130	5,530	11,880	6,980	8,320	2,270	1,450	2,370	2,300	28
29	1,000	3,540	25,270	6,450		15,420	7,270	8,140	2,800	1,180	2,360	1,640	29
30	1,250	3,490	19,680	5,930		29,480	7,500	7,700	2,030	2,170	2,390	1,910	30
31	1,190		12,010	5,550		20,850		7,570		1,910	2,090		31
MEAN	1,477	5,886	7,285	11,117	5,125	11,373	9,950	8,046	5,529	2,883	2,150	2,127	MEAN
MAX.	2,210	22,760	25,270	35,590	6,540	34,980	25,040	9,840	8,570	9,830	2,680	2,700	MAX.
MIN.	1,000	1,320	3,500	5,550	3,300	6,040	6,740	5,870	2,030	1,180	1,290	1,000	MIN.
AC. FT.	90,920	350,250	447,970	682,790	284,650	699,280	592,050	494,760	329,020	177,270	132,200	126,590	AC. FT.

A - 25 hour day  
 B - 23 hour day

**WATER YEAR SUMMARY**

MEAN	MAXIMUM					MINIMUM					TOTAL
INFLOW	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
6,088											4,407,750

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			INFLOW	CONTENT	PERIOD		ZERO ON GAGE
			CFS	GAGE HT.	DATE			FROM	TO	
38 42 29	121 09 22	NE 24 10N 7E				FEB 1955-DATE	FEB 1955-DATE	1955		0.00

The figures contained herein are computed inflow to Folsom Reservoir and take into account change in storage, release, spill, precipitation, and evaporation. They are representative of the natural flow which would pass the damsite (2.3 miles northeast of Folsom) if the dam had not been constructed. Records furnished by USBR. Drainage area is 1,861 square miles.

TABLE B-15  
GAGING STATIONS  
ADDITIONS AND DISCONTINUATIONS

ADDITIONAL STATIONS

A02971	Butte Slough at Mawson Bridge	1-1-73
B02007	Mosher Slough near Stockton	10-1-73

DISCONTINUED STATIONS

None

PUBLICATIONS DISCONTINUED

None

PUBLISHED DATA FROM PRIOR YEARS

A02971	Butte Slough at Mawson Bridge	1972-73
A05929	Wadsworth Canal near Sutter	1972-73

TABLE B-16

CORRECTIONS AND REVISIONS TO  
PREVIOUSLY PUBLISHED REPORTS

Corrections and revisions pertain to bulletins of surface water flows published from 1924 to date. These publications are:

Report 1. "Report of Sacramento-San Joaquin Water Supervision".  
Published from 1924 through 1955.

Report 2. Bulletin No. 23,  
"Surface Water Flow". Published  
from 1956 through 1962.

Report 3. "Flood Flows and Stages  
in Sacramento and Northern San  
Joaquin Valleys". Published from  
1913 through 1956.

Report 4. Bulletin No. 130,  
"Hydrologic Data: Volume II,  
Northeastern California".  
Published from 1963 to date.

Corrections and revisions to surface water  
made prior to publication of Bulletin  
No. 130-68, "Hydrologic Data: North-  
eastern California", are in Bulletin  
No. 130-67. This report contains cor-  
rections made since publication of  
Bulletin No. 130-67.

TABLE B-16

## CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

Location of Error or Revision					Change or Revision																													
Report	Page	Mile & Bank	Name	Item	From	To																												
4	286		Mokelumne River near Thornton	<u>1965</u> Datum of Gage	1964, -3.00 USCGS	1964, 0.00 USCGS																												
4	151		Sacramento River, Sacramento to Redding	<u>1966</u> Total Diversions October November December January February March April May June July August September TOTAL  Average cubic feet per second October November December January February March April May June July August September TOTAL  Monthly use in per- cent of seasonal October November December January February March April May June July August September	28,490 4,263 2,860 1,585 1,468 2,870 149,695 211,918 207,730 191,624 172,832 66,143 104,148  463 72 46 26 27 47 2,516 3,446 3,401 3,116 2,811 1,112 1,439  2.7 0.4 0.3 0.2 0.1 0.3 14.4 20.3 19.9 18.4 16.6 6.4	66,118 17,939 6,887 1,772 1,592 7,856 302,010 378,193 353,650 350,907 313,752 119,869 1,920,545  1,075 301 112 29 29 128 5,076 6,151 5,943 5,707 5,103 2,015 2,653  3.4 0.9 0.4 0.1 0.1 0.4 15.7 19.7 18.4 18.3 16.4 6.2																												
4	245, 246		Sacramento River at Collinsville	Datum of Gage	<table><tr><th colspan="4">Datum of Gage</th></tr><tr><th colspan="2">Period</th><th>Zero on Gage</th><th>Ref. Datum</th></tr><tr><th>From</th><th>To</th><th></th><th></th></tr><tr><td>1929</td><td></td><td>0.00</td><td>USED</td></tr><tr><td></td><td></td><td>-3.05</td><td>USCGS</td></tr><tr><td>1964</td><td></td><td>-3.54</td><td>USCGS</td></tr><tr><td>1964</td><td></td><td>-3.00</td><td>USCGS</td></tr></table>		Datum of Gage				Period		Zero on Gage	Ref. Datum	From	To			1929		0.00	USED			-3.05	USCGS	1964		-3.54	USCGS	1964		-3.00	USCGS
Datum of Gage																																		
Period		Zero on Gage	Ref. Datum																															
From	To																																	
1929		0.00	USED																															
		-3.05	USCGS																															
1964		-3.54	USCGS																															
1964		-3.00	USCGS																															
4	158		Cache Creek above Rumsey	<u>1967</u> Maximum Discharge of Record Discharge Gage Height Date	26,700 E cfs 18.30 E 1-31-1963	30,000 cfs 16.90 1-21-1967																												
4	162		Putah Creek above Davis	Monthly Mean Discharge March	41,047 cfs	1,324 cfs																												
4	171		Duck Creek near Stockton	Discharge Data	Table Revised - Published	Page 155 - 1968 Report																												
4	177		Bear Creek near Lodi	Maximum Discharge of Record Discharge Gage Height Date	670 cfs 3.35 1-30-1966	4,550 cfs 8.33 1-22-1967																												
4	264		Mokelumne River near Thornton	Datum of Gage	1964, -3.00 USCGS	1964, 0.00, USCGS																												
4	296		Sacramento River at Collinaville	Datum of Gage	<table><tr><th colspan="4">Datum of Gage</th></tr><tr><th colspan="2">Period</th><th>Zero on Gage</th><th>Ref. Datum</th></tr><tr><th>From</th><th>To</th><th></th><th></th></tr><tr><td>1929</td><td></td><td>0.00</td><td>USED</td></tr><tr><td></td><td></td><td>-3.05</td><td>USCGS</td></tr><tr><td>1964</td><td></td><td>-3.54</td><td>USCGS</td></tr><tr><td>1964</td><td></td><td>-3.00</td><td>USCGS</td></tr></table>		Datum of Gage				Period		Zero on Gage	Ref. Datum	From	To			1929		0.00	USED			-3.05	USCGS	1964		-3.54	USCGS	1964		-3.00	USCGS
Datum of Gage																																		
Period		Zero on Gage	Ref. Datum																															
From	To																																	
1929		0.00	USED																															
		-3.05	USCGS																															
1964		-3.54	USCGS																															
1964		-3.00	USCGS																															
4	296		Sacramento River at Collineville	Daily Maximum and Minimum Tides	<p>Notation: In order to machine process the data, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.</p>																													

TABLE B-16 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

Location of Error or Revision					Change or Revision	
Report	Page	Mile & Bank	Name	Item	From	To
4	312		Suisun Bay at Benicia	<u>1967</u> (Cont.) Daily Maximum and Minimum Tides		<u>Notation:</u> In order to machine process the data, it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.
4	54		Clover Creek Bypass near Upper Lake	<u>1968</u> Number Change	A89140	A81940
4	55, 61, 68		Grindstone Creek near Elk Creek	Number Change	A31300	A31302
4	94		Grindstone Creek near Elk Creek	Number Change	A31395	A31302
4	55, 63, 73		Kellogg Creek near Byron	Number Change	B95295	B89200
4	70		Fremont Weir Spill to Yolo Bypass	Map Plotting		To be located approximately midway between A02160 and A02170.
4	79		Willow Creek near Litchfield	Date of Discontinuance	9-30-68	9-30-67
4	87		Red Bank Creek near Red Bluff	Station Location	Station located at Red Bank Road Bridge, 11 miles southwest of Red Bluff.	Station located at Briggs Road Bridge, 11 miles southwest of Red Bluff.
4	142		Cache Creek above Rumsey	Maximum Discharge of Record	Discharge Gage Height Date 26,700 E cfs 18.30 E 1-31-1963	30,000 cfs 16.90 1-21-1967
4	155, 156		Duck Creek near Stockton	Maximum Discharge of Record	Discharge Gage Height Date 400 cfs 5.75 12-24-1955	635 cfs 5.96 1-30-1967
4	161		Bear Creek near Lodi	Maximum Discharge of Record	Discharge Gage Height Date 670 cfs 3.35 1-30-1966	4,550 cfs 8.33 1-22-1967
4	198	11.0R	Hallwood Irrigation Company	Diversions	December 13,503 January 2,530 April 17,650 May 32,730 June 29,734 July 29,880 August 28,060 September 15,160 TOTAL ~ 169,334	4,863 1,140 10,950 19,600 17,210 17,540 16,120 9,880 97,390
4	239		Sutter Bypass at Long Bridge	Station Location	Station located on west levee, 0.2 mile north of State Highway 20, 319 miles east of Meridian.	Station located on west levee, 0.2 mile north of State Highway 20, 3.9 miles east of Meridian.
4	247		Feather River near Gridley	Daily Mean Gage Height		<u>Notation:</u> In order to machine process the data, it was necessary to avoid gage heights above 99.99 feet. For values at reference datum, add 50 feet to gage height readings.
4	256		Sacramento River at Sacramento	Daily Mean Gage Height	February 28 20.74 February 29 20.74	20.90 20.92
4	128		Cache Creek above Rumsey	<u>1969</u> Maximum Discharge of Record	Discharge Gage Height Date 26,700 E cfs 18.30 E 1-31-1963	30,000 cfs 16.90 1-21-1967
4	136		French Camp Slough near French Camp	Total Acre-Feet Total Acre-Feet Mean Discharge	May 28,820 Year 191,200 Year 232 cfs	2,882 165,200 228 cfs
4	138		Duck Creek near Stockton	Maximum Discharge of Record	Discharge Gage Height Date 477 cfs 5.49 1-25-1969	635 cfs 5.96 1-30-1967
4	142		Bear Creek near Lodi	Maximum Discharge of Record	Discharge Gage Height Date 1,870 cfs 5.32 1-13-1969	4,550 cfs 8.33 1-22-1967



TABLE B-16 (Cont.)

## CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

Location of Error or Revision				Change or Revision		
Report	Page	Mile & Bank	Name	Item	From	To
4	154		Bidwell Creek near Fort Bidwell	<u>1969 (Cont.)</u>		
				Daily Mean	May 10, 1969	163
				Discharge	May 11, 1969	188
					May 12, 1969	247
					May 13, 1969	208
4	225		Feather River near Gridley		May 14, 1969	175
				MONTHLY TOTAL	7,246 Acre-Feet	6,922 Acre-Feet
				WATER YEAR TOTAL	18,360 Acre-Feet	18,040 Acre-Feet
				Daily Mean Gage Height		
						Notation: In order to machine process the data, it was necessary to avoid gage heights above 99.99 feet. For values at reference datum, add 50 feet to gage height readings.
4	54		Little Chico Creek Diversion near Chico	<u>1970</u>		
				Daily Mean	Dec. 19, 1969	4.0 cfs
				Discharge	Jan. 9, 1970	0.5
					Jan. 13, 1970	4.9
					Jan. 14, 1970	543
4	67		Burney Creek near Burney		Jan. 16, 1970	10
					Jan. 21, 1970	43
					Jan. 23, 1970	131
					Jan. 24, 1970	104
					Jan. 27, 1970	1.6
4				WATER YEAR TOTAL		1,670 Acre-Feet
				Daily Mean	June 18, 1970	25
				Discharge	June 19, 1970	23
					June 20, 1970	21
					June 21, 1970	28
4					June 22, 1970	28
					June 23, 1970	25
					June 24, 1970	20
					June 25, 1970	29
					June 26, 1970	32
4					June 27, 1970	35
					June 28, 1970	45
					June 29, 1970	7.0
					June 30, 1970	3.7
				MONTHLY TOTAL	1,388 Acre-Feet	
4					July 1, 1970	3.7
					July 2, 1970	3.7
					July 3, 1970	3.7
					July 4, 1970	3.7
					July 5, 1970	3.7
4					July 6, 1970	3.7
					July 7, 1970	3.7
					July 8, 1970	3.7
					July 9, 1970	3.7
					July 10, 1970	3.7
4					July 11, 1970	3.7
					July 12, 1970	3.7
					July 13, 1970	3.7
					July 14, 1970	3.8
					July 15, 1970	3.8
4					July 16, 1970	6.5
					July 17, 1970	11
					July 18, 1970	12
					July 19, 1970	15
					July 20, 1970	18
4					July 21, 1970	15
					July 22, 1970	13
				MONTHLY TOTAL	522 Acre-Feet	923 Acre-Feet
				WATER YEAR TOTAL	93,107 Acre-Feet	93,438 Acre-Feet
4	130		Duck Creek near Stockton	Maximum Discharge of Record	Discharge	477 cfs
					Gage Height	5.49
					Date	1/25/1969
						635 cfs
						5.96
4	134		Bear Creek near Lodi	Maximum Discharge of Record	Discharge	3,300 cfs
					Gage Height	7.11
					Date	1/14/1970
						4,550 cfs
						8.33
4	137		Dry Creek near Ione	Monthly Total		
				December	Mean	39.2
					Maximum	219
					Minimum	3.9
					Acre-Feet	2,408
4	148		Bidwell Creek near Fort Bidwell	Yearly Mean	cfs	46.1
				Yearly Total	Acre-Feet	30,531
				Daily Mean	Jan. 22, 1970	196
				Discharge	Jan. 23, 1970	172
					Jan. 24, 1970	168
4				MONTHLY TOTAL	2,050 Acre-Feet	1,749 Acre-Feet
				WATER YEAR TOTAL	16,521 Acre-Feet	16,220 Acre-Feet

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

240

## Appendix C

### GROUND WATER MEASUREMENTS

This appendix contains summary and selected information concerning the level of ground water in wells within 32 ground water basins or areas in Northeastern California. Wells are selected to reflect the ground water conditions of the area. These wells are continuously reviewed and, when conditions dictate, replacement wells are located and measured.

Earlier editions of this report contained a tabulation of individual measurements of ground water levels at wells. This type of data collected by the Department will be available at the various district offices of the Department. Please see the introduction at the front of this volume for the addresses of these district offices.

Table C-1 shows the average change in ground water levels for the various basins in Northeastern California from spring 1973 to spring 1974. This table also shows the number of well measurements collected in the various areas. Figure C-2 contains graphical presentations of the average levels of ground water in the spring for the past several years. Figure C-3 is a graphical representation of the fluctuation of ground water level in certain selected wells for the past several years. An attempt has been made to select wells that represent conditions in the basin where the well is located. However, some caution in the use of these data is in order because ground water conditions can vary markedly with relatively small changes in horizontal location.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System. The regions used in Bulletin No. 130 are geographic areas defined in Section 13200 of the Water Code. This volume comprises the northern portions of Central Valley Region No. 5 and Lahontan Region No. 6. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and subbasins or subareas as follows:

	5	-	21	.	05
Region (Central Valley)					
Ground Water Basin (Sacramento Valley)					
Subbasin or Subarea (Sutter County)					

The State Well Numbering System is based on township, range, and section subdivisions of the public land survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below on the left.

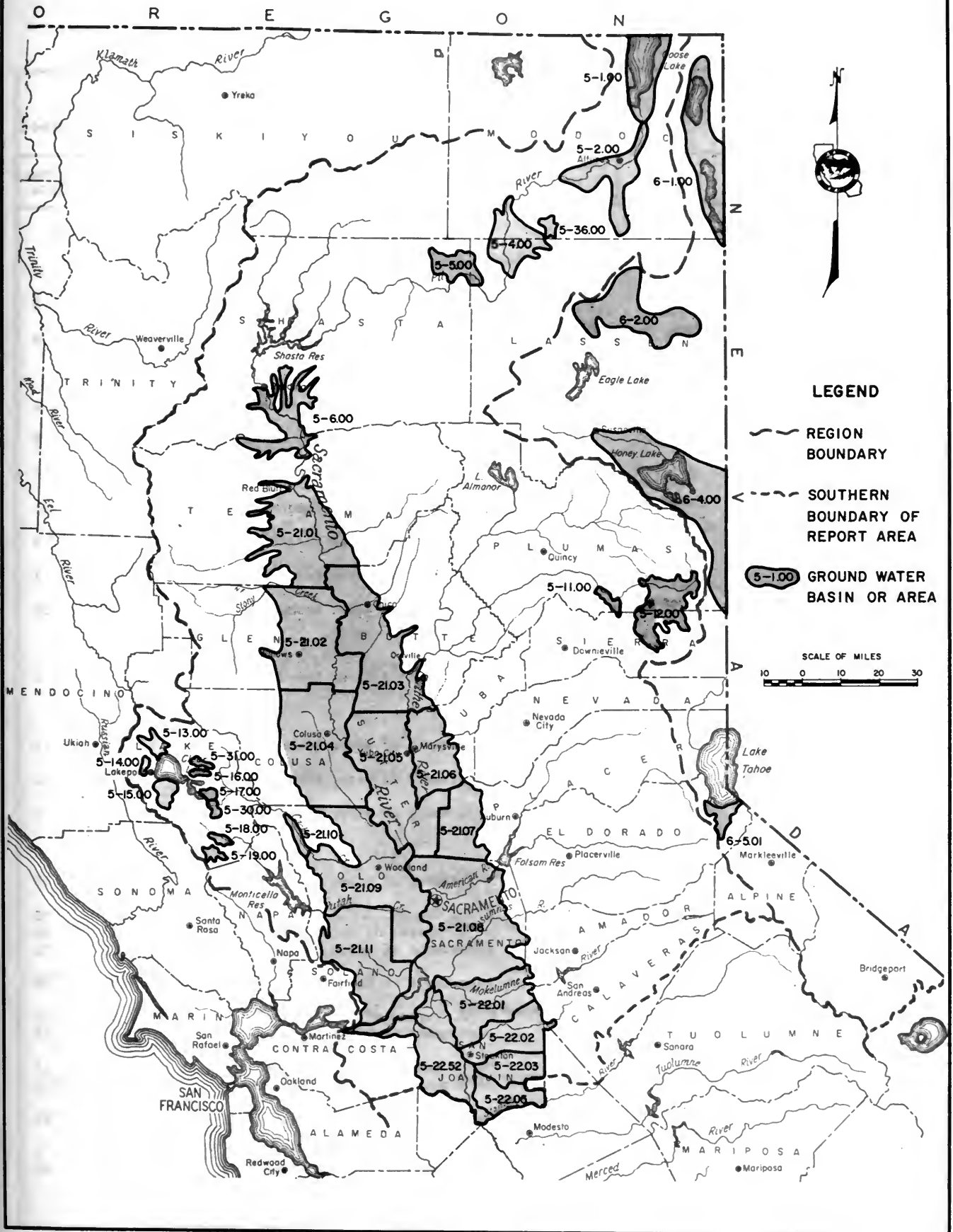
	39N	/	13E	-	08	J	04	M
Township								
Range								
Section								
Tract								
Sequence Number								
Base and Meridian								

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

This number identifies and locates the well. In the example, the well is in Township 39 North, Range 13 East, Tract J of Section 8, referenced to the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as shown above on the right. Sequence numbers in a tract are generally assigned in chronological order. The example designates the fourth well to be assigned a number in Tract J.

INDEX TO GROUND WATER MEASUREMENT DATA  
IN NORTHEASTERN CALIFORNIA

<u>Number</u>		<u>Page</u>
CENTRAL VALLEY REGION 5-00.00		
5-01.00	Goose Lake Valley	
5-02.00	Alturas Basin . . . . .	244
5-04.00	Big Valley . . . . .	244
5-36.00	Round Valley	
5-05.00	Fall River Valley . . . . .	244
5-06.00	Redding Basin . . . . .	244, 249
5-11.00	Mohawk Valley . . . . .	244
5-12.00	Sierra Valley . . . . .	244
5-13.00	Upper Lake Valley . . . . .	244
5-14.00	Scotts Valley . . . . .	244
5-15.00	Kelseyville Valley . . . . .	244
5-31.00	Long Valley.	
5-16.00	High Valley. . . . .	244
5-17.00	Burns Valley	
5-30.00	Lower Lake Area . . . . .	244
5-18.00	Coyote Valley . . . . .	244
5-19.00	Collayomi Valley . . . . .	244, 249
5-21.00	Sacramento Valley. . . . .	246
5-21.01	Tehama County . . . . .	244, 246, 249
5-21.02	Glenn County. . . . .	244, 246, 249
5-21.03	Butte County. . . . .	244, 246, 250
5-21.04	Colusa County . . . . .	244, 246, 250
5-21.05	Sutter County . . . . .	244, 246, 250
5-21.06	Yuba County . . . . .	244, 247, 251
5-21.07	Placer County . . . . .	244, 247, 251
5-21.08	Sacramento County . . . . .	245, 247, 252
5-21.09	Yolo County . . . . .	245, 247, 252
5-21.10	Capay Valley . . . . .	245, 247
5-21.11	Solano County . . . . .	245, 247, 252
5-22.00	San Joaquin Valley	
5-22.01	Mokelumne River Area . . . . .	245, 248, 253
5-22.02	Calaveras River Area . . . . .	245, 248, 253
5-22.03	Farmington-Collegeville Area . . . . .	245, 248, 253
5-22.05	South San Joaquin Irrigation District	245, 248
5-22.52	Delta Area . . . . .	245
LAHONTAN REGION 6-00.00		
6-01.00	Surprise Valley . . . . .	245
6-02.00	Madeline Plains	
6-04.00	Honey Lake Valley . . . . .	245
6-05.00	Tahoe Valley	
6-05.01	South Tahoe Valley . . . . .	245



# GROUND WATER BASINS IN NORTHEASTERN CALIFORNIA

TABLE C-1

AVERAGE CHANGE OF GROUND WATER LEVELS  
AND SUMMARY OF WELL MEASUREMENTS REPORTED

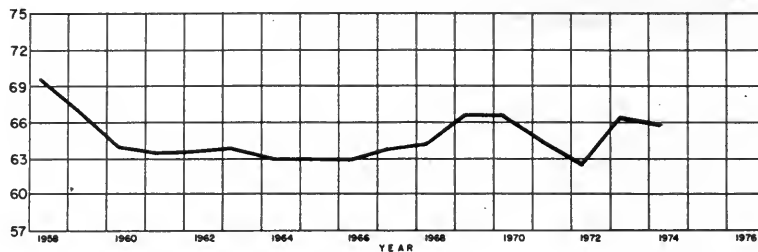
Ground Water Basin or Area		Average Change Spring 1973 to Spring 1974 in feet	Measuring Agency	Number of Well Measurements Reported		
Name	Number			Monthly 1973-74	Fall 1973	Spring 1974
CENTRAL VALLEY REGION						
Goose Lake Valley	5-01.00					
Alturas Basin	5-02.00	+0.6	Department of Water Resources		9	9
Big Valley	5-04.00	+0.2	Department of Water Resources		4	4
Round Valley	5-36.00					
Fall River Valley	5-05.00	+1.3	Department of Water Resources		5	4
Redding Basin	5-06.00	+0.4	Department of Water Resources	1	9	9
Mohawk Valley	5-11.00	-0.4	Department of Water Resources		1	2
Sierra Valley	5-12.00	-0.2	Department of Water Resources		23	21
Upper Lake Valley	5-13.00	+0.2	Department of Water Resources		5	4
Scotts Valley	5-14.00	0.0	Department of Water Resources		1	1
Kelseyville Valley	5-15.00	+1.9	Department of Water Resources		11	10
Long Valley	5-31.00					
High Valley	5-16.00	+3.6	Department of Water Resources		2	2
Burns Valley	5-17.00					
Lower Lake Area	5-30.00	-0.1	Department of Water Resources		1	1
Coyote Valley	5-18.00	+0.5	Department of Water Resources		1	1
Collayomi Valley	5-19.00	+0.8	Department of Water Resources		2	2
Sacramento Valley	5-21.00					
Tehama County	5-21.01	-0.6	Department of Water Resources	19	48	48
Glenn County	5-21.02	-1.7	Glenn County		110	50
			U. S. Bureau of Reclamation		25	23
			Department of Water Resources	14	15	21
Butte County	5-21.03	-0.5	Department of Water Resources	16	124	56
Colusa County	5-21.04	-1.1	U. S. Bureau of Reclamation		32	31
			Department of Water Resources	8	44	43
Sutter County	5-21.05	+0.2	South Sutter Water District		25	25
			Department of Water Resources		114	113
Yuba County	5-21.06	-0.2	Department of Water Resources	1	95	94
Placer County	5-21.07	+0.7	South Sutter Water District		2	2
			Department of Water Resources	7	80	81

TABLE C-1 (Continued)

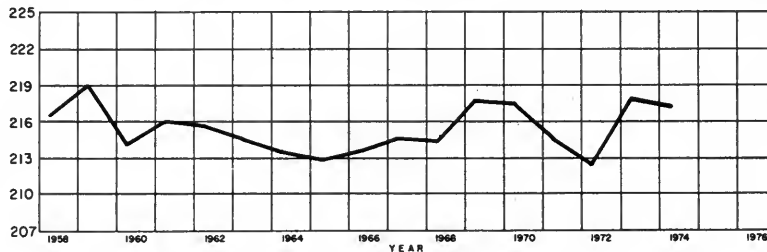
AVERAGE CHANGE OF GROUND WATER LEVELS  
AND SUMMARY OF WELL MEASUREMENTS REPORTED

Ground Water Basin or Area		Average Change Spring 1973 to Spring 1974 in feet	Measuring Agency	Number of Well Measurements Reported		
Name	Number			Monthly 1973-74	Fall 1973	Spring 1974
Sacramento Valley (Continued)						
Sacramento County	5-21.08	0.0	Sacramento County	92	90	
			Sacramento Muni. Utility Dist.	19	19	
			Arcade Water District	26	39	
			U. S. Bureau of Reclamation	89	90	
			Department of Water Resources	18	68	
Yolo County	5-21.09	-0.5	Yolo County	168	169	
			U. S. Bureau of Reclamation	79	77	
			Department of Water Resources	12	27	
Capay Valley	5-21.10	-0.1	Yolo County	21	21	
Solano County	5-21.11	+0.7	Solano County	22	21	
			U. S. Bureau of Reclamation	99	101	
			Department of Water Resources	13	21	
San Joaquin Valley						
Mokelumne River Area	5-22.01	0.0	San Joaquin County	81	80	
			California Water Service Company	4	4	
			East Bay Municipal Utility Dist.	1	61	
			U. S. Bureau of Reclamation	4	4	
			Department of Water Resources	1	45	
Calaveras River Area	5-22.02	-0.8	San Joaquin County	76	76	
			California Water Service Company	18	18	
			East Bay Municipal Utility Dist.	3	3	
			Stockton-East Water District	36	35	
			Department of Water Resources	3	39	
Farmington-Collegeville Area	5-22.03	+0.6	San Joaquin County	57	57	
			Oakdale Irrigation District	2	2	
			Stockton-East Water District	1	1	
			Department of Water Resources	1	18	
South San Joaquin Irrigation District	5-22.05	-1.1	San Joaquin County	4	5	
			Oakdale Irrigation District	1	1	
			Department of Water Resources	42	41	
Delta Area	5-22.52	-2.6	San Joaquin County	5	5	
			Department of Water Resources	1	19	
LAHONTAN REGION						
Surprise Valley	6-01.00	-2.2	Department of Water Resources	12	12	
Madeline Plains	6-02.00					
Honey Lake Valley	6-04.00	-0.3	Department of Water Resources	10	10	
Tahoe Valley	6-05.00					
South Tahoe Valley	6-05.01	+0.9	Department of Water Resources	20	20	
TOTAL				116	2,077	
					1,955	

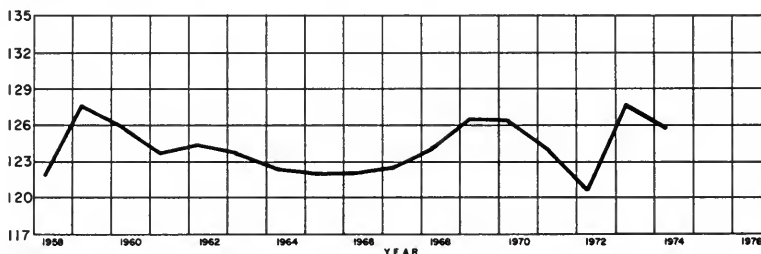
ELEVATION IN FEET - U. S. C. & G. S. DATUM



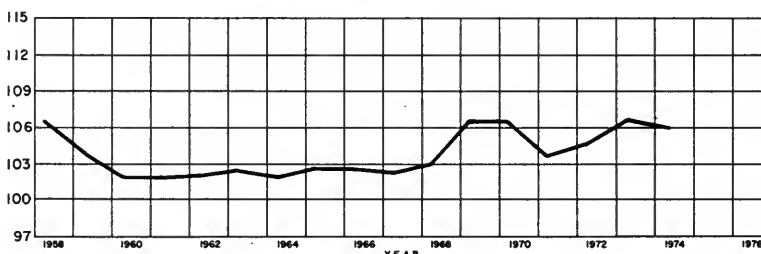
SACRAMENTO VALLEY AREA  
5 - 21.00  
AVERAGE GROUND SURFACE  
ELEVATION 96'



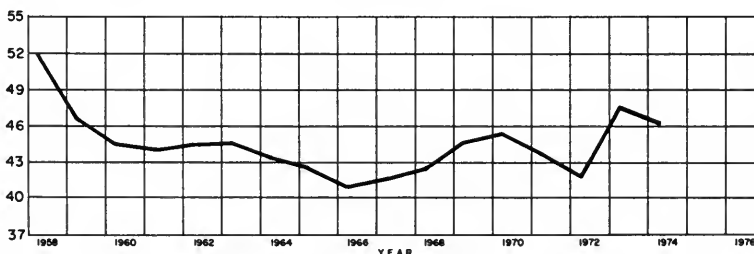
TEHAMA COUNTY AREA  
5 - 21.01  
AVERAGE GROUND SURFACE  
ELEVATION 248'



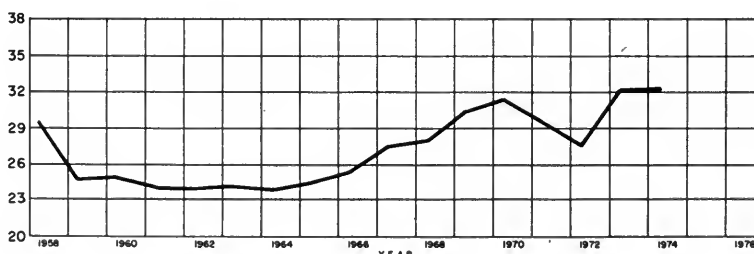
GLENN COUNTY AREA  
5 - 21.02  
AVERAGE GROUND SURFACE  
ELEVATION 140'



BUTTE COUNTY AREA  
5 - 21.03  
AVERAGE GROUND SURFACE  
ELEVATION 126'



COLUSA COUNTY AREA  
5 - 21.04  
AVERAGE GROUND SURFACE  
ELEVATION 75'

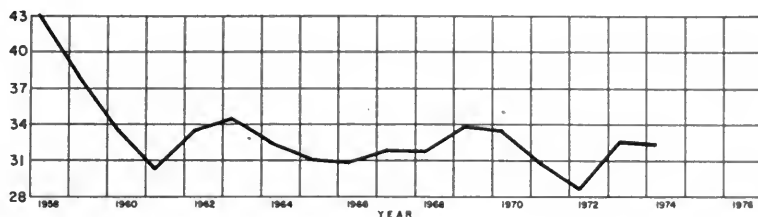


SUTTER COUNTY AREA  
5 - 21.05  
AVERAGE GROUND SURFACE  
ELEVATION 42'

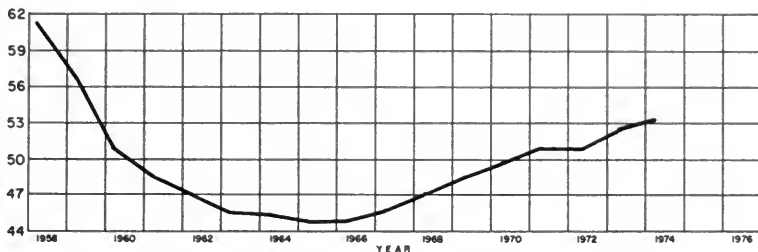
FLUCTUATION OF AVERAGE GROUND WATER LEVEL IN SELECTED AREAS



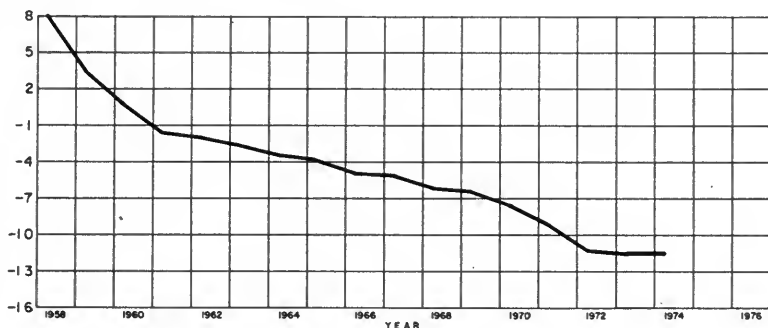
ELEVATION IN FEET - U. S. C. & G. S. DATUM



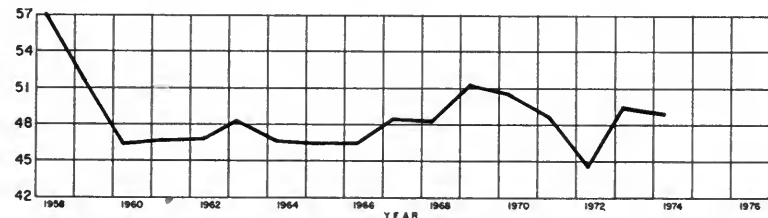
YUBA COUNTY AREA  
5 - 21.06  
AVERAGE GROUND SURFACE  
ELEVATION 70'



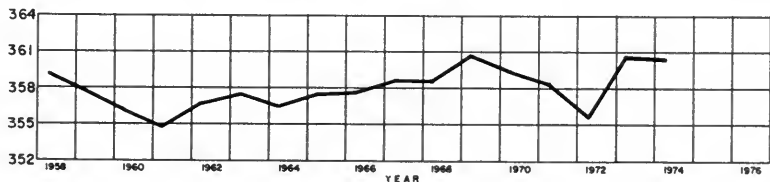
PLACER COUNTY AREA  
5 - 21.07  
AVERAGE GROUND SURFACE  
ELEVATION 100'



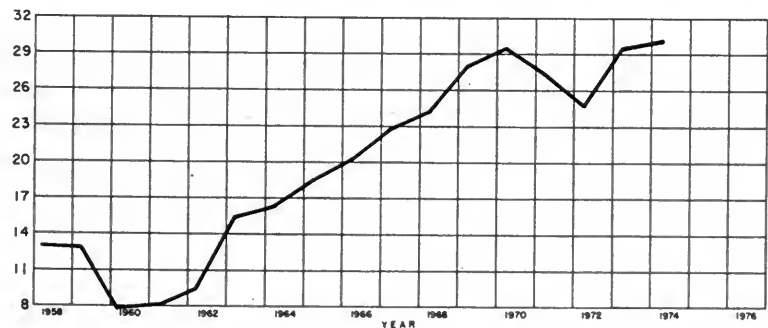
SACRAMENTO COUNTY AREA  
5 - 21.08  
AVERAGE GROUND SURFACE  
ELEVATION 52'



YOLO COUNTY AREA  
5 - 21.09  
AVERAGE GROUND SURFACE  
ELEVATION 79'



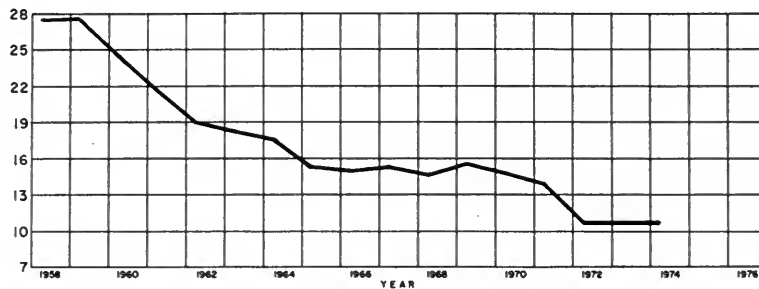
CAPAY VALLEY AREA  
5 - 21.10  
AVERAGE GROUND SURFACE  
ELEVATION 380'



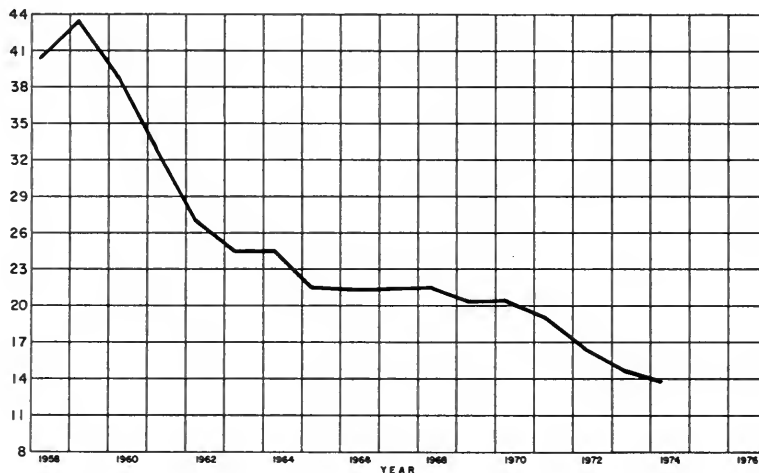
SOLANO COUNTY AREA  
5 - 21.11  
AVERAGE GROUND SURFACE  
ELEVATION 55'

FLUCTUATION OF AVERAGE GROUND WATER LEVEL IN SELECTED AREAS

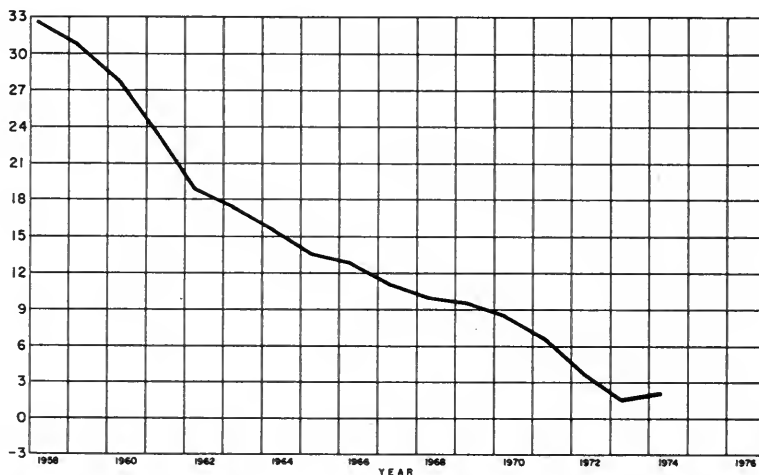
ELEVATION IN FEET - U. S. C. & G. S. DATUM



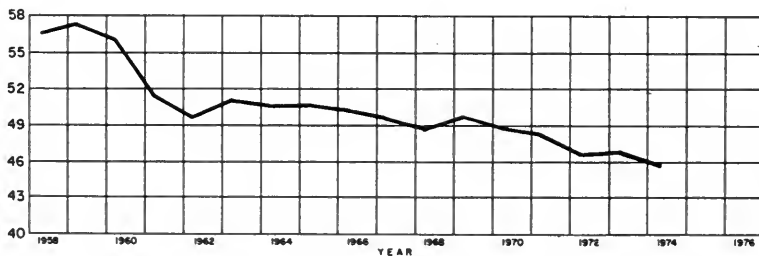
MOKELUMNE RIVER AREA  
5-22.01  
AVERAGE GROUND SURFACE  
ELEVATION 73'



CALAVERAS RIVER AREA  
5-22.02  
AVERAGE GROUND SURFACE  
ELEVATION 97'



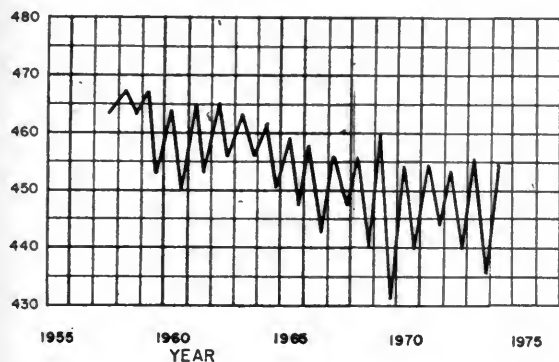
FARMINGTON - COLLEGEVILLE  
AREA  
5-22.03  
AVERAGE GROUND SURFACE  
ELEVATION 78'



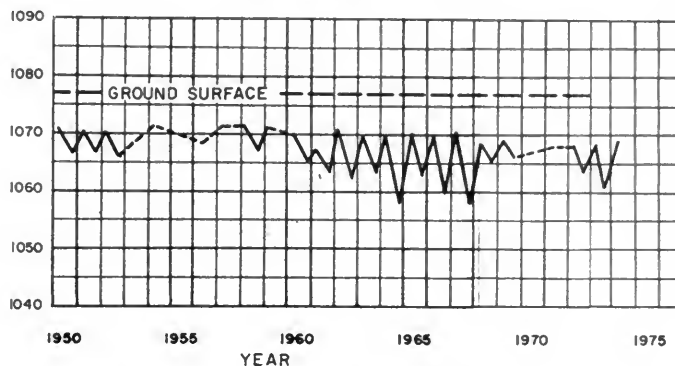
SOUTH SAN JOAQUIN  
IRRIGATION DISTRICT AREA  
5-22.05  
AVERAGE GROUND SURFACE  
ELEVATION 69'

FLUCTUATION OF AVERAGE GROUND WATER LEVEL IN SELECTED AREAS

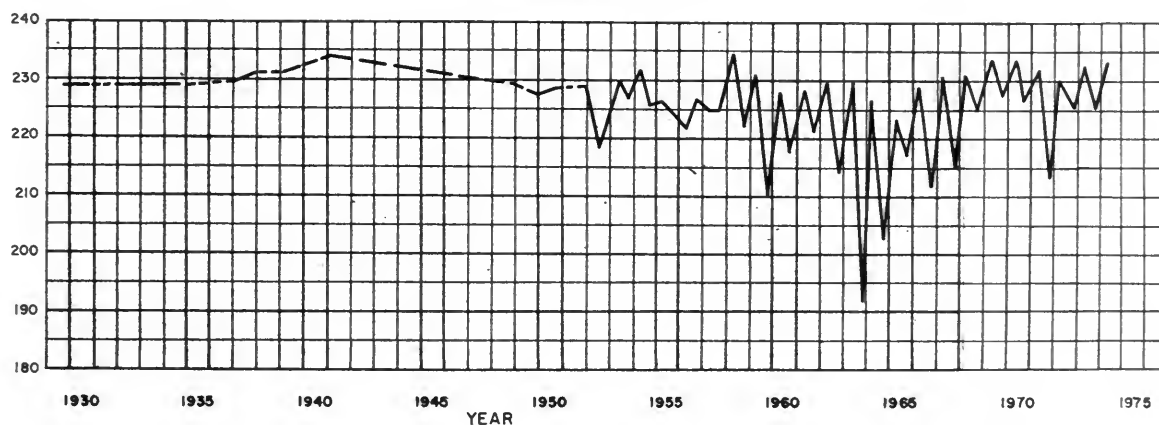
REDDING BASIN (5-6.00)  
SHASTA COUNTY  
WELL 29N/5W-11A2, M.D.B. & M.  
GROUND SURFACE ELEVATION 512'



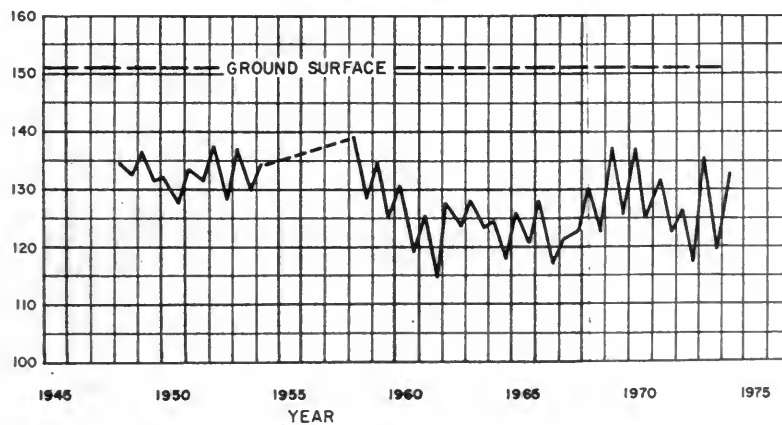
COLLAYOMI VALLEY (5-19.00)  
LAKE COUNTY  
WELL 11N/7W-35E1, M.D.B. & M.  
GROUND SURFACE ELEVATION 1077'



SACRAMENTO VALLEY (5-21.00)  
TEHAMA COUNTY (5-21.01)  
WELL 26N/3W-4K1, M.D.B. & M.  
GROUND SURFACE ELEVATION 293'



SACRAMENTO VALLEY (5-21.00)  
GLENN COUNTY (5-21.02)  
WELL 21N/2W-28M1, M.D.B. & M.  
GROUND SURFACE ELEVATION 151'

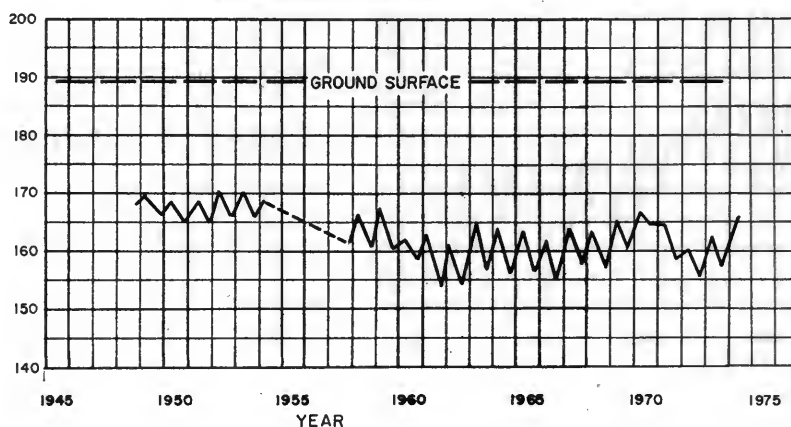


-----CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

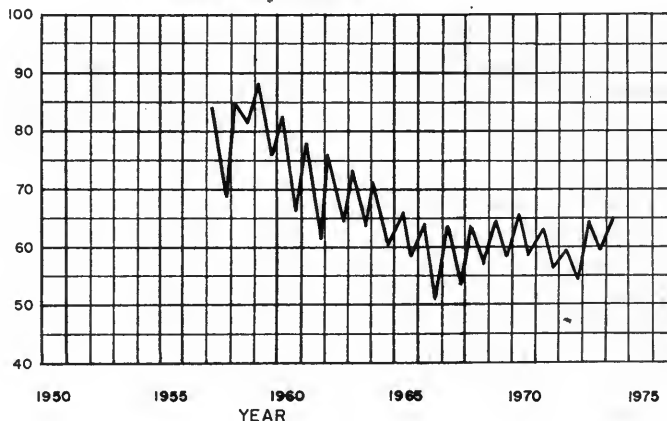
## FLUCTUATION OF WATER LEVEL IN WELLS

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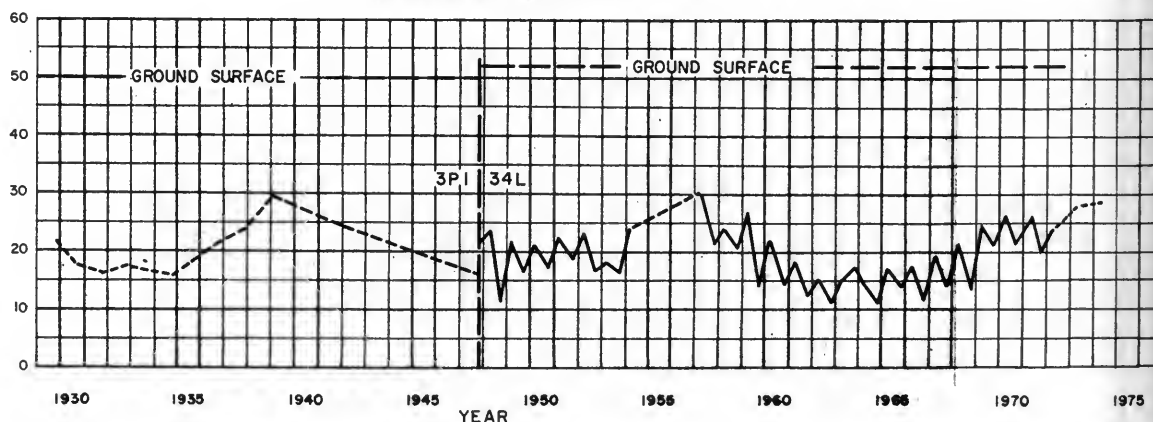
SACRAMENTO VALLEY (5-21.00)  
BUTTE COUNTY (5-21.03)  
WELL 23N/1W-14RI, M.D.B. & M.  
GROUND SURFACE ELEVATION 189'



SACRAMENTO VALLEY (5-21.00)  
COLUSA COUNTY (5-21.04)  
WELL 14N/2W-16N2, M.D.B. & M.  
GROUND SURFACE ELEVATION 118'



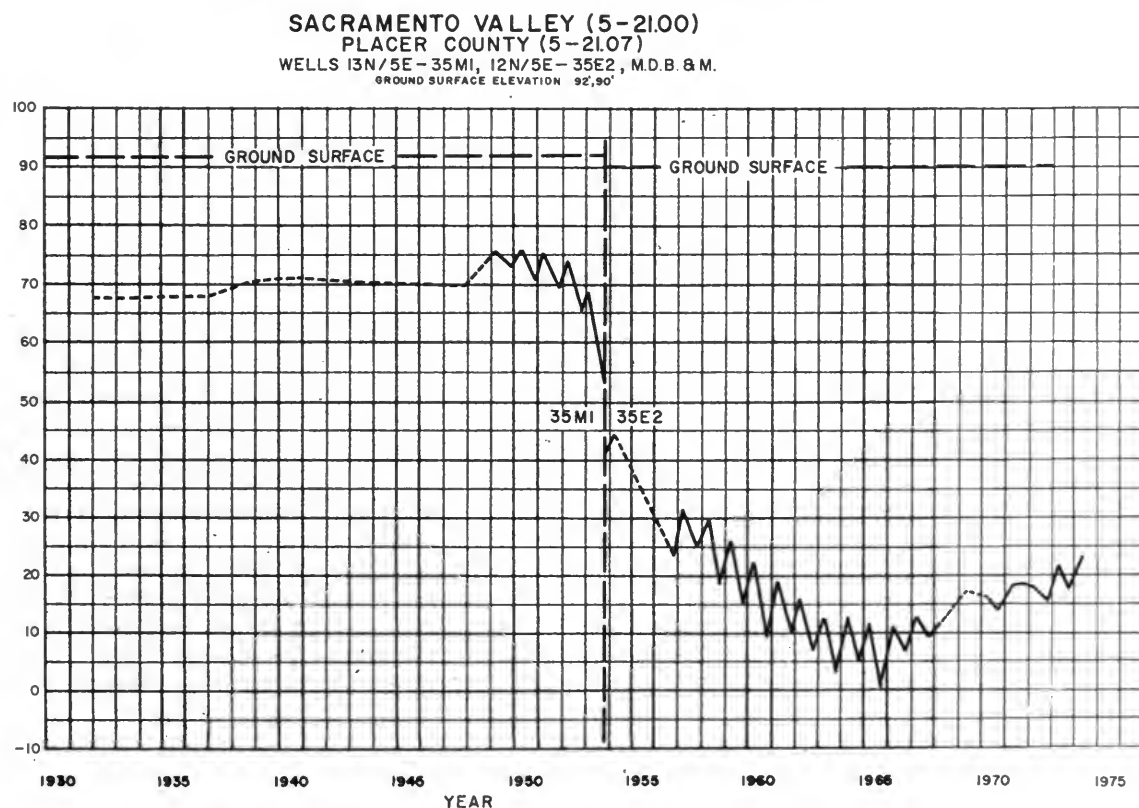
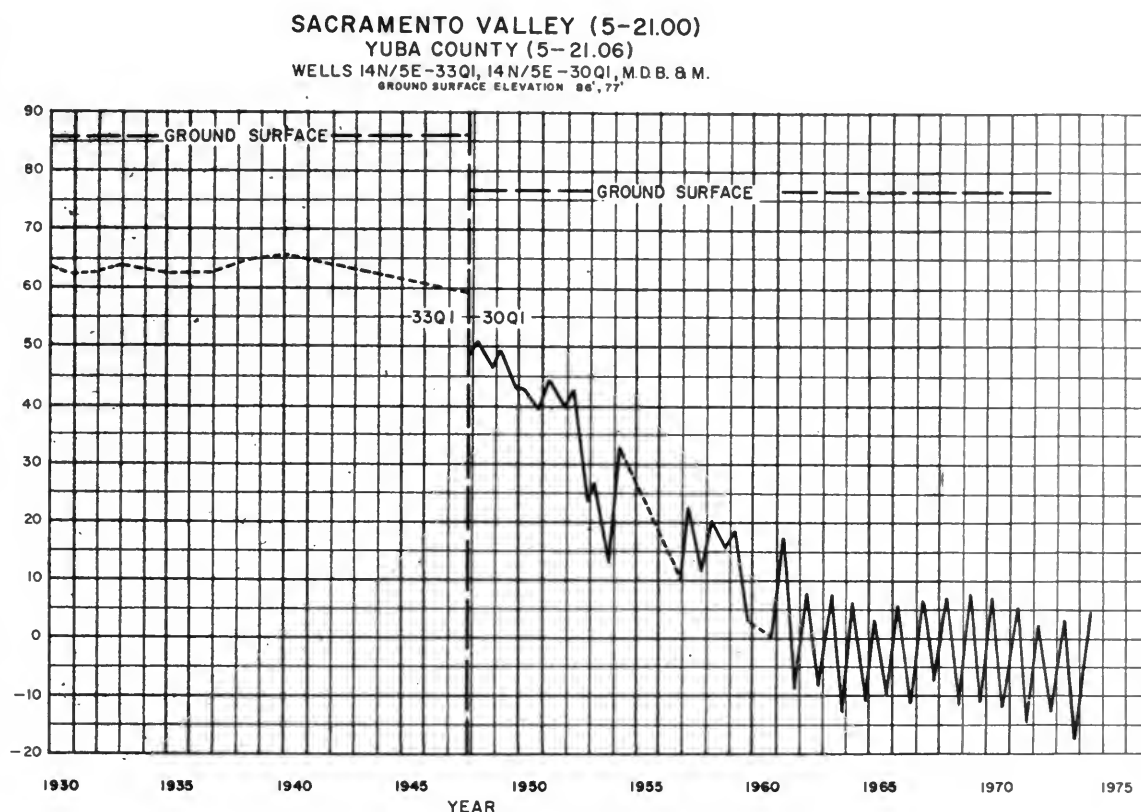
SACRAMENTO VALLEY (5-21.00)  
SUTTER COUNTY (5-21.05)  
WELLS 14N/3E-3PI, 15N/3E-34LI, M.D.B. & M.  
GROUND SURFACE ELEVATION 50'52"



-----CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

FLUCTUATION OF WATER LEVEL IN WELLS

ELEVATION IN FEET - U.S.C. &amp; G.S. DATUM

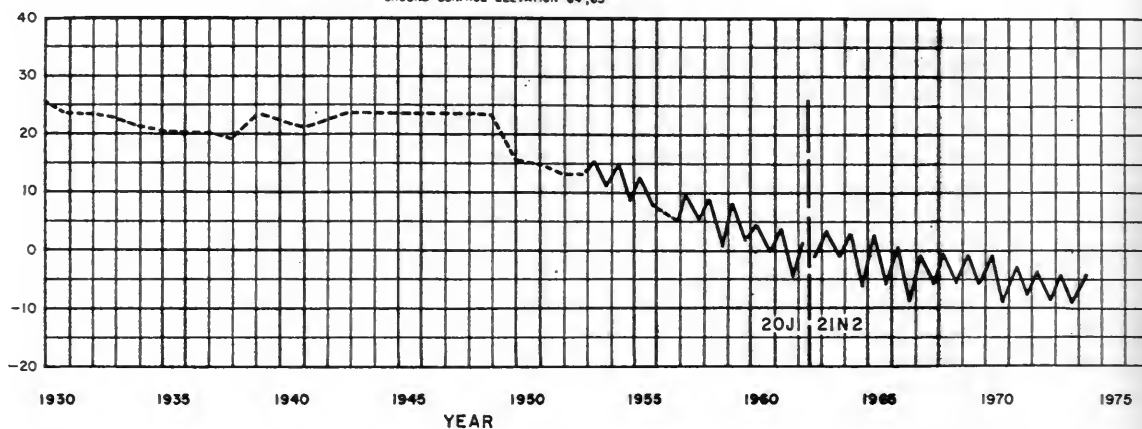


-----CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

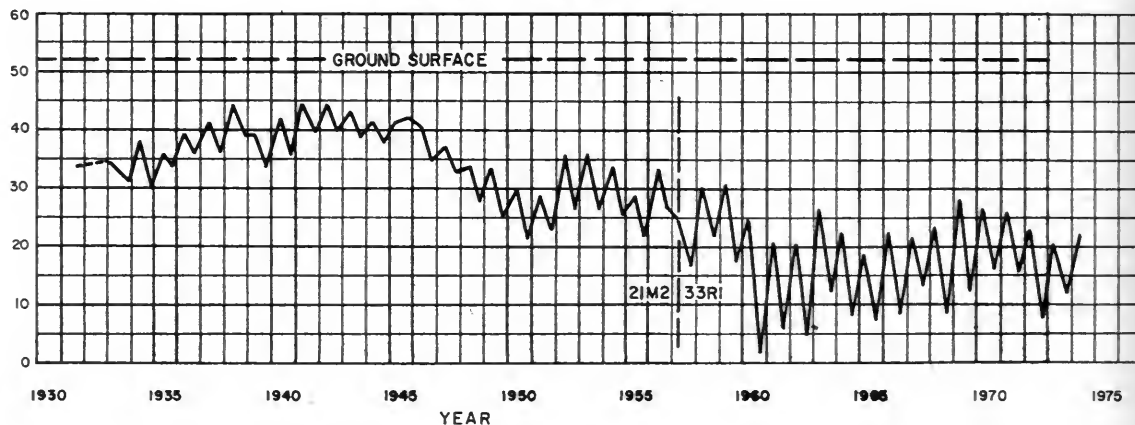
## FLUCTUATION OF WATER LEVEL IN WELLS

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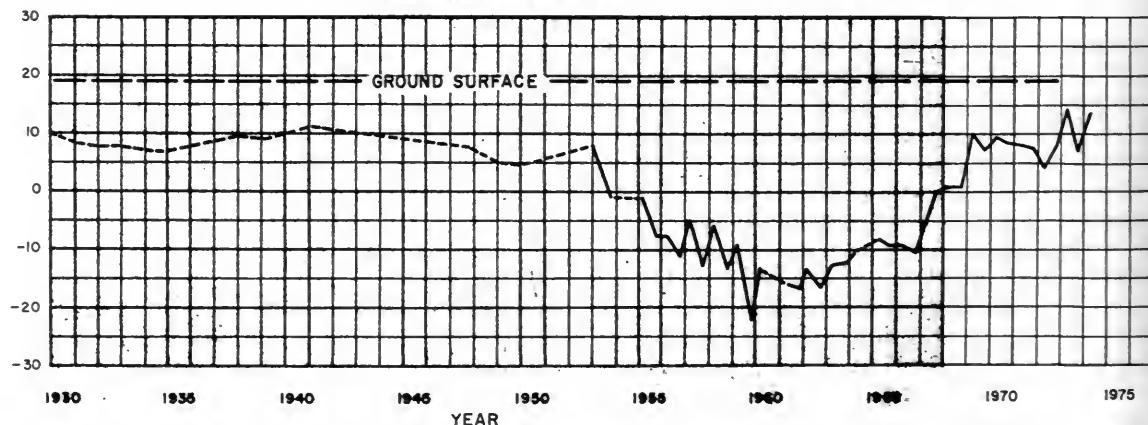
**SACRAMENTO VALLEY (5-21.00)**  
**SACRAMENTO COUNTY (5-21.08)**  
 WELLS 8N/6E-20J1, 8N/6E-21N2, M.D.B. & M.  
 GROUND SURFACE ELEVATION 64', 65'



**SACRAMENTO VALLEY (5-21.00)**  
**YOLO COUNTY (5-21.09)**  
 WELLS 10N/2E-21M2, 10N/2E-33R1, M.D.B. & M.  
 GROUND SURFACE ELEVATION 52'



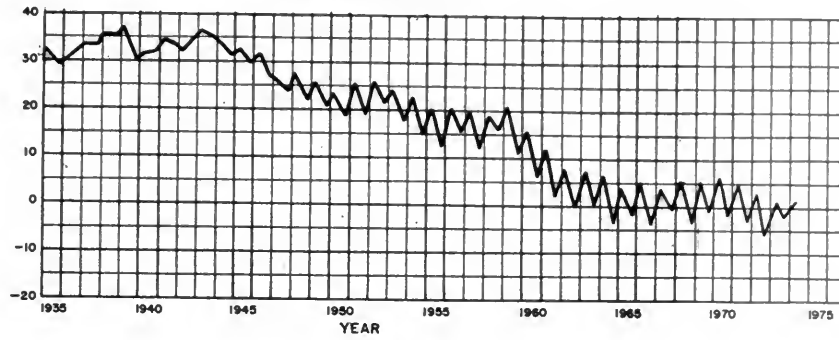
**SACRAMENTO VALLEY (5-21.00)**  
**SOLANO COUNTY (5-21.11)**  
 WELL 6N/2E-29N1, M.D.B. & M.  
 GROUND SURFACE ELEVATION 19'



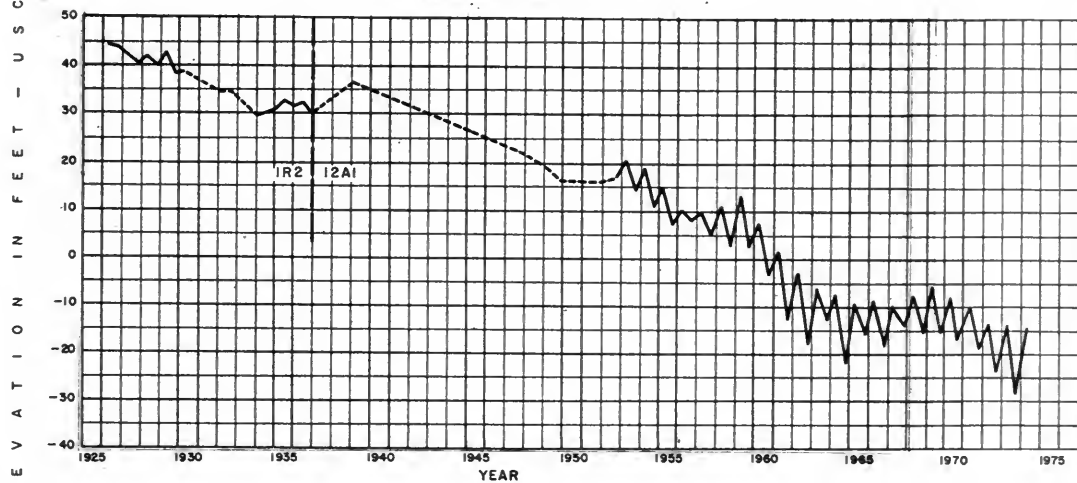
-----CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

**FLUCTUATION OF WATER LEVEL IN WELLS**

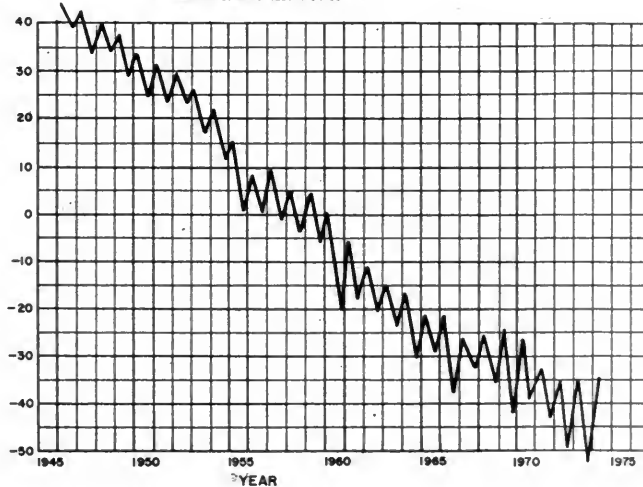
SAN JOAQUIN VALLEY (5-22.00)  
 MOKELUMNE RIVER AREA (5-22.01)  
 WELL 3N/7E-10L4, M.D.B. & M.  
 GROUND SURFACE ELEVATION 73'



SAN JOAQUIN VALLEY (5-22.00)  
 CALAVERAS RIVER AREA (5-22.02)  
 WELLS 2N/7E-1R2, 2N/7E-12A1, M.D.B. & M.  
 GROUND SURFACE ELEVATION 74', 72'



SAN JOAQUIN VALLEY (5-22.00)  
 FARMINGTON-COLLEGEVILLE AREA (5-22.03)  
 WELL 1N/8E-17D1, M.D.B. & M.  
 GROUND SURFACE ELEVATION 88'



----- CONNECTS MEASUREMENTS  
 MADE AT INTERVALS OF A  
 YEAR OR MORE.

## FLUCTUATION OF WATER LEVEL IN WELLS





## APPENDIX D

### SURFACE WATER QUALITY DATA

This appendix contains surface water quality data collected at 189 stream and estuarine stations in Northeastern California during the period from October 1, 1973, through September 30, 1974. Samples were collected by the Department of Water Resources, U. S. Bureau of Reclamation, and U. S. Geological Survey.

The Department of Water Resources Laboratory used procedures from the latest edition of "Standard Methods for the Examination of Water and Wastewater" for the determination of mineral, nutrient, and biological constituents. Pesticides are determined in accordance with the "Guide to the Analysis of Pesticide Residuees", U. S. Department of Health, Education and Welfare, 1965.

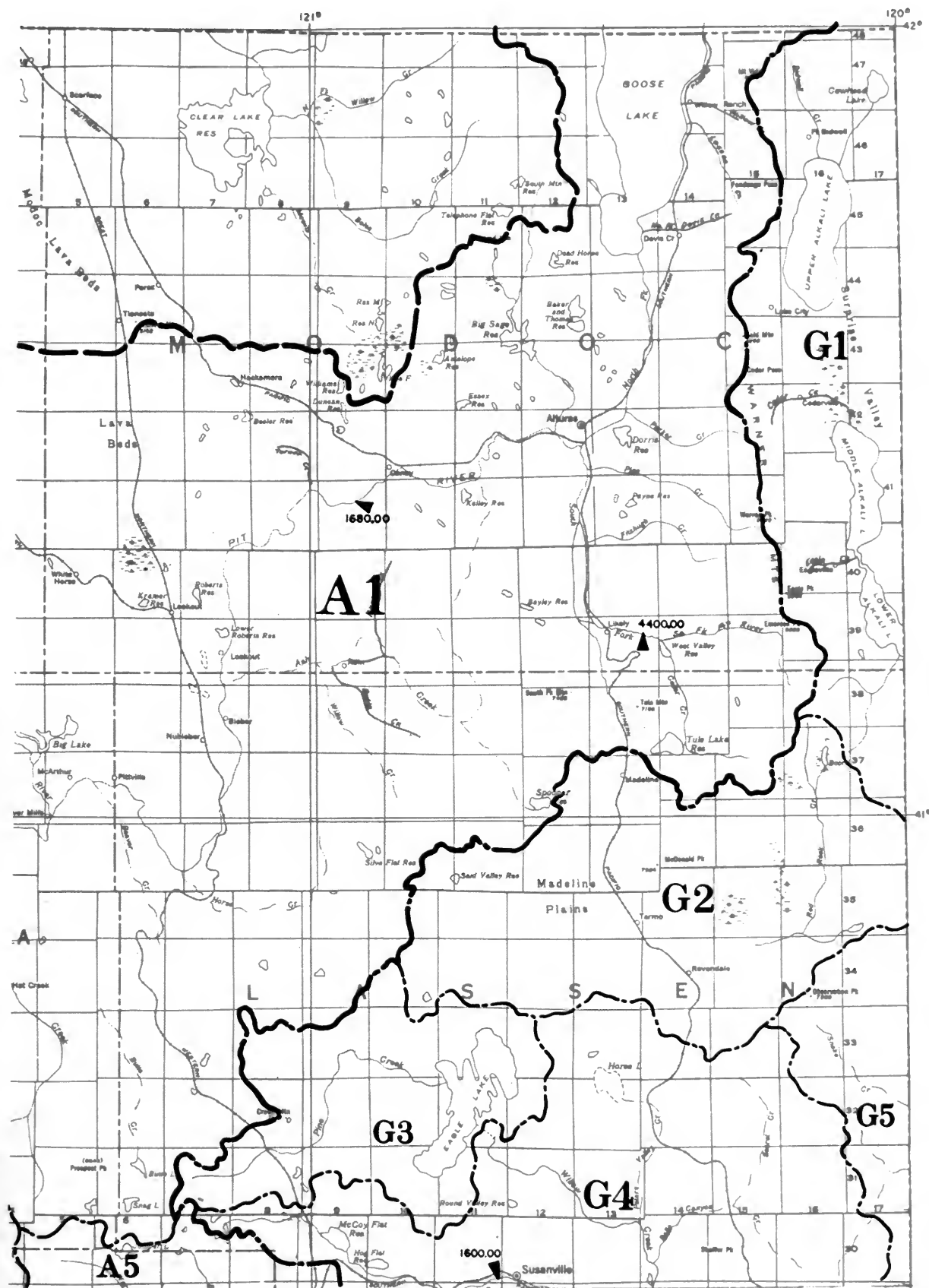
Two numbering systems are used in this bulletin for identifying water quality stations. The first is for those stations for which the flow of water can be measured readily, as in streams and rivers. This system is described in the introduction to Appendix B.

The second numbering system is used for stations located in broad water bodies. This system is described as follows. The first two digits show the hydrographic unit as identified in Appendix B on page 19. The third digit identifies the type of water body, and for this publication is a "B" for Bay system; "C" for canal; "D" for Sacramento-San Joaquin Delta system; "L" for lake; "R" for reservoir; "S" for slough; "V" for agricultural drain; and "X" for a channel of two-direction flow. The next digit is the last digit of the latitude in degrees, "3" for 33°, or "9" for 29°. The next three digits are the minutes of latitude to the tenth of a minute. The last four digits are the longitude in the same manner as latitude. A fifth digit indicates a sequence number when two stations have the same eight-digit latitude and longitude numbers.

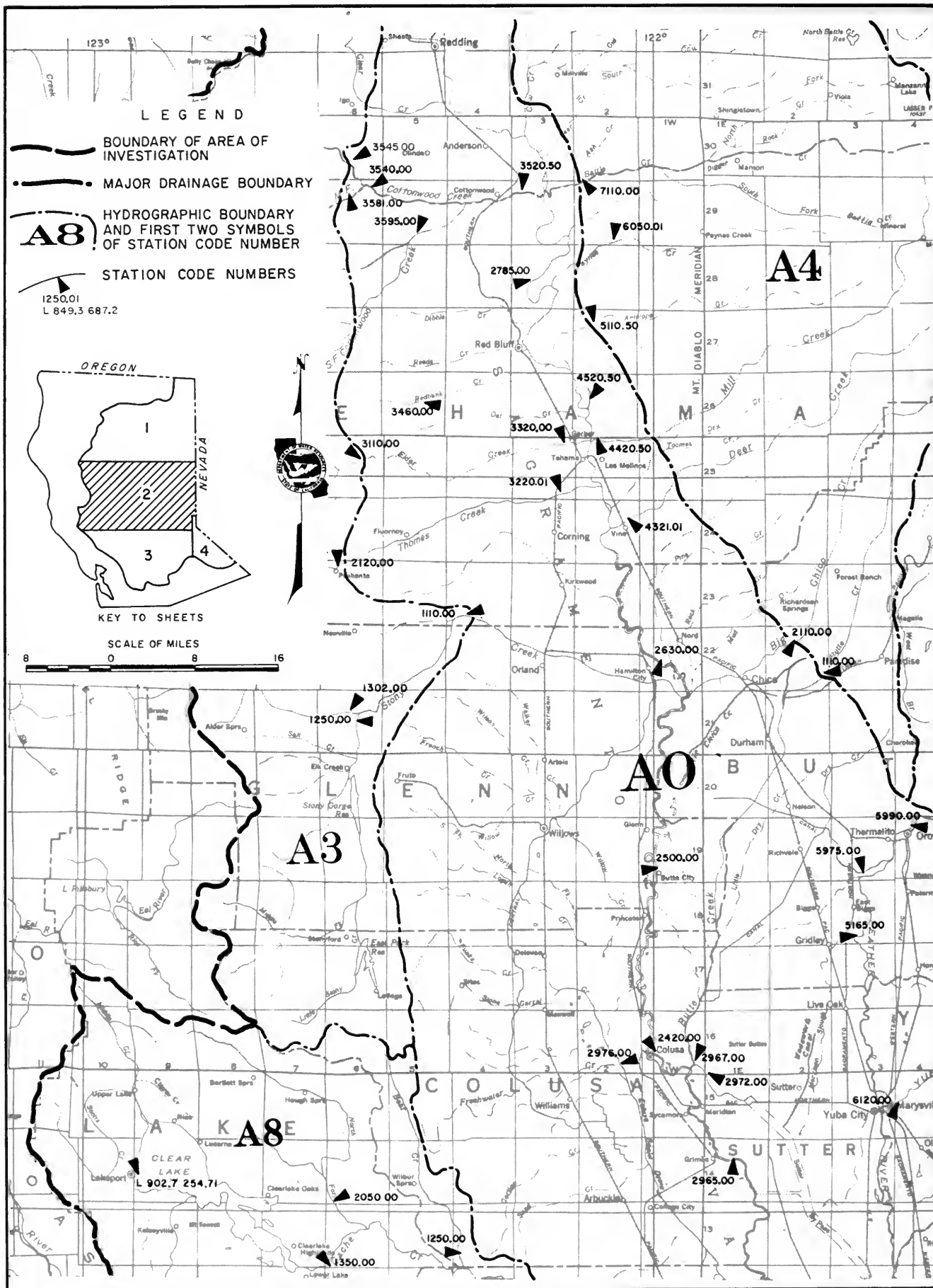
Example: G7 L 904.5 008.4 2

G7	North Lahontan Area, Truckee River Unit
L	Water Body -- Lake
9	39° Latitude
04.5	04.5' Latitude
0	120° Longitude
08.4	08.4' longitude
2	Second Station

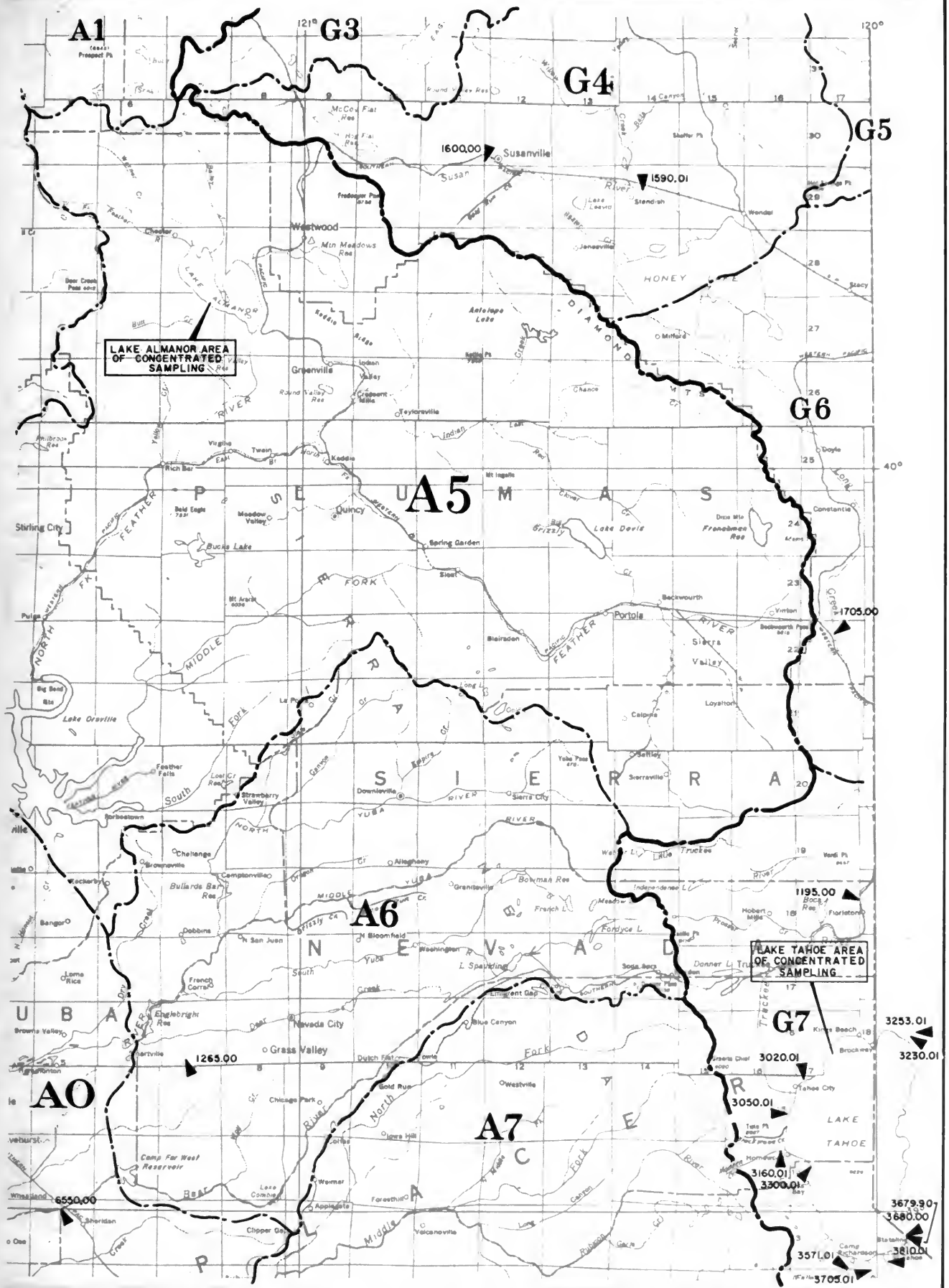




## SURFACE WATER QUALITY SAMPLING STATIONS



SURFACE WATER QUALITY SAMPLING STATIONS

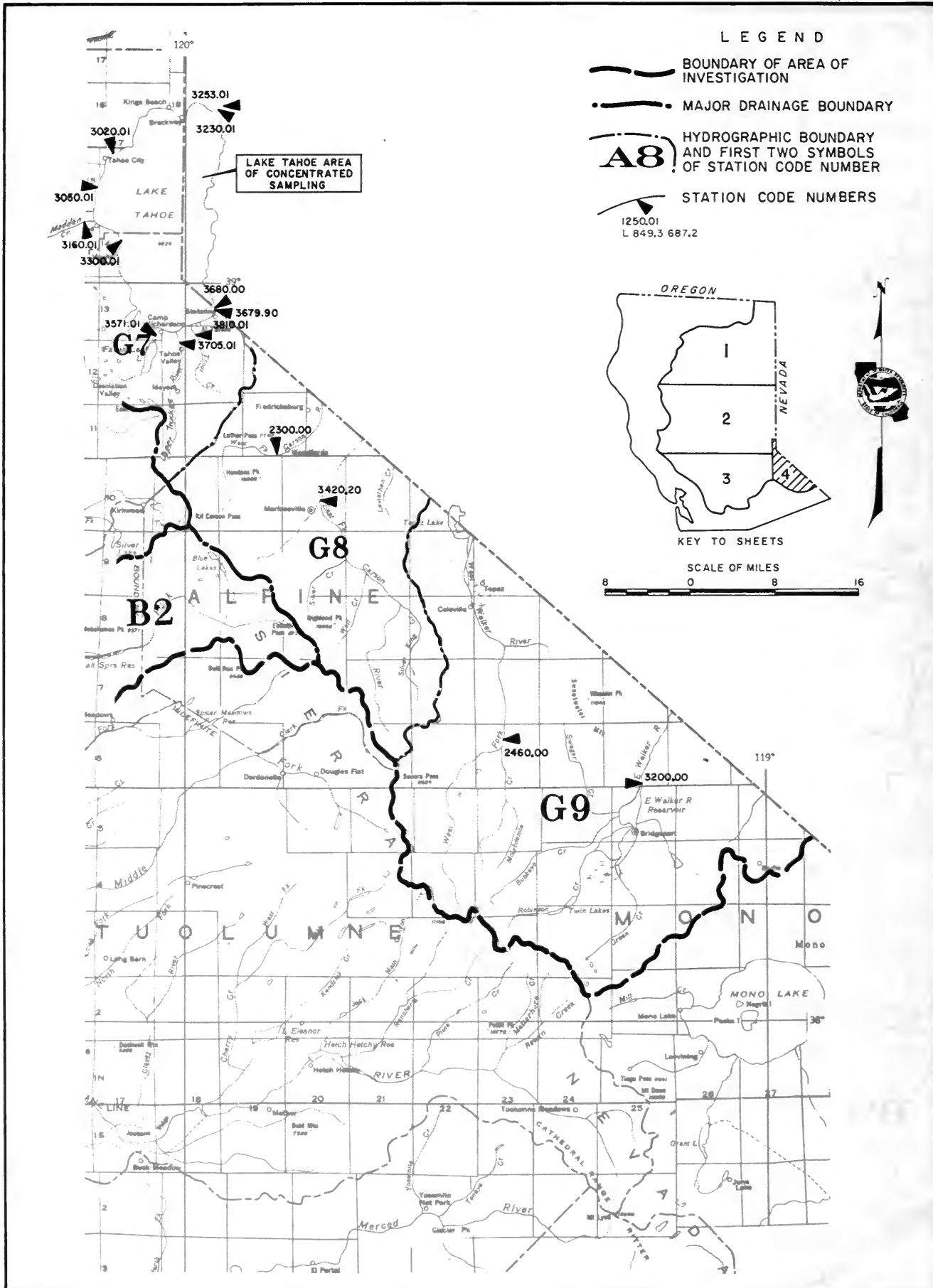


SURFACE WATER QUALITY SAMPLING STATIONS





## 261



## SURFACE WATER QUALITY SAMPLING STATIONS



TABLE D-1  
SAMPLING STATION DATA AND INDEX

STATION NAME	STATION NUMBER	LOCATION		RECORD BEGAN	DATA ON PAGES INDICATED										FIGURE D-1 D-2
		LATITUDE ° ' "	LONGITUDE ° ' "		D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10		
AMERICAN RIVER BELOW NIMBUS DAM	A0 7180.00	38-38-08	121-13-36	02/56	278	323		331	358					261	
AMERICAN RIVER AT SACRAMENTO WATER PLANT	A0 7140.10	38-33-35	121-24-57	10/68	278	323		331	358			392		261	
ANTELOPE CREEK NEAR MOUTH NEAR RED BLUFF	A0 4520.50	40-06-30	122-06-35	10/58	277									258	
ANTELOPE CREEK NEAR RED BLUFF	A4 5110.50	40-12-10	122-07-05	11/58	282									258	
BATTLE CREEK NEAR COTTONWOOD	A4 7110.00	40-23-50	122-08-05	04/68	282									258	
BEAR CREEK NEAR RUMSEY	A8 1250.00	38-56-42	122-20-42	10/68	284	324			359	382				260	
BEAR RIVER NEAR WHEATLAND	A0 6550.00	39-00-01	121-24-20	12/51	277									261	
BEAVER SLOUGH NEAR THORNTON	B9 D 812.3 126.8	38-12-15	121-26-46	01/68	314			349	376					266	
BIG BREAK NEAR OAKLEY	B9 D 801.1 142.6	38-01-05	121-42-38	03/68	301	325		339	367	383				267	
BIG CHICO CREEK NEAR CHICO	A4 2110.00	39-46-18	121-45-45	07/52	282	324			359					258	
BURTON CREEK IN STAR HARBOR (T-8)	G7 3020.01	39-10-54	120-07-08	08/71	319			351	379					261	
BUTTE CREEK NEAR CHICO	A4 1110.00	39-43-34	121-42-28	07/52	281	324			358					258	
BUTTE SLOUGH NEAR MERIDIAN	A0 2972.00	39-10-15	121-54-00	02/71	274	323			357	382				258	
BUTTE SLOUGH AT OUTFALL GATES	A0 2967.00	39-11-42	121-56-06	08/69	274									258	
CACHE CREEK NEAR CAPAY	A8 1120.00	38-43-43	122-06-14	12/51	284							394		260	
CACHE CREEK NEAR LOWER LAKE	A8 1350.00	38-55-24	122-33-54	11/51	285	324			359	383				260	
CACHE CREEK, NORTH FORK, NEAR LOWER LAKE	A8 2050.00	39-01-06	122-34-05	12/51	285	324			360					260	
CARSON RIVER, EAST FORK, AT HIGHWAY 4	G8 3420.20	38-41-20	119-45-44	09/58	321									262	
CARSON RIVER, WEST FORK, AT WOODFORDS	G8 2300.00	38-46-10	119-50-00	08/58	320									262	
CLEAR CREEK NEAR IGO	A3 6130.00	40-30-47	122-31-24	04/58	281	323			358					258	
CLEAR LAKE AT LAKEPORT	A8 L 902.7 254.71	39-02-36	122-54-48	04/51	283	324			359					260	
COLUSA BASIN DRAIN AT HIGHWAY 20	A0 2976.00	39-11-45	122-03-35	07/62	274	323			357	382				260	
COLUSA BASIN DRAIN NEAR KNIGHTS LANDING	A0 2947.10	38-48-45	121-46-25	03/67	272	323			355	382				260	
COSUMNES RIVER AT MICHIGAN BAR	B1 1150.00	38-30-01	121-02-40	07/52	288							397		261	
COSUMNES RIVER, MIDDLE FORK, NEAR SOMERSET	B1 3150.00	38-37-29	120-42-02	10/67	288									261	
COSUMNES RIVER, NORTH FORK, NEAR EL DORADO	B1 2100.00	38-35-20	120-50-38	10/57	288									261	
COSUMNES RIVER, SOUTH FORK, AT RIVER PINES	B1 4110.01	38-32-48	120-44-10	10/67	288									261	
COTTONWOOD CREEK AT COTTONWOOD	A0 3520.50	40-22-35	122-16-45	04/51	275	323			357					258	
COTTONWOOD CREEK MIDDLE FORK NEAR GAS POINT	A0 3581.00	40-23-06	122-31-45		276									258	
COTTONWOOD CREEK BELOW NORTH FORK COTTONWOOD CR	A0 3540.00	40-23-00	122-29-10	10/58	276									258	
COTTONWOOD CREEK, SOUTH FORK, NEAR COTTONWOOD	A0 3595.00	40-19-00	122-26-55	11/58	276									258	
COTTONWOOD CREEK, NORTH FORK, NEAR IGO	A0 3545.00	40-26-30	122-32-54		276									258	
COW CREEK NEAR MILLVILLE	A4 8110.00	40-30-20	122-13-55	04/58	282	324			359					256	
DEER CREEK AT HIGHWAY 99E	A0 4321.01	39-56-48	122-03-06	05/71	276	323			357					258	
DISAPPOINTMENT SLOUGH AT BISHOP CUT	B9 D 802.6 125.1	38-02-38	121-25-04	03/74	303			340	368					267	
DISAPPOINTMENT SLOUGH NEAR LODI	B9 D 802.7 123.3	38-02-42	121-23-15	10/68	305			342	370					267	
DUTCH SLOUGH AT BETHEL ISLAND BRIDGE	B9 D 800.7 138.4	38-00-43	121-38-24	05/55	300			338	367					267	
EAST WALKER RIVER NEAR BRIDGEPORT	G9 3200.00	38-19-40	119-12-49	08/58	321									262	
EDGEWOOD CREEK AT HIGHWAY 50 (T-7)	G7 3680.00	38-57-58	119-56-11	08/71	320			352	380					261	
EDGEWOOD CREEK AT MOUTH (T-7A)	G7 3679.90	38-58-00	119-56-57	08/72	320			352	380					261	
ELDER CREEK AT GERBER	A0 3320.00	40-18-06	122-09-54	01/59	275									258	
ELDER CREEK NEAR PASKENTA	A3 3110.00	40-01-30	120-30-36	10/58	281									258	
FALSE RIVER AT WEBB PUMP	B9 D 803.7 136.1	38-03-43	121-36-03	02/68	306									267	
FEATHER RIVER AT NICOLAUS	A0 5103.00	38-54-01	121-35-00	03/49	277			357	382					260	
FEATHER RIVER NEAR GRIDLEY	A0 5165.00	39-22-01	121-38-43	03/67							386			258	
FEATHER RIVER FISH HATCHERY	A0 5990.00	39-31-05	121-33-11	03/69							387			258	
14 MILE SLOUGH BELOW DISAPPOINTMENT SLOUGH	B9 D 800.8 123.0	38-00-45	121-23-03	10/73	301				367					267	
14 MILE SL NR CUMBERLAND AND 14 MILE RD	B9 D 759.6 121.4	37-59-39	121-21-25	10/73	299				366					267	
14 MILE SLOUGH ABOVE LINCOLN VIL WEST MARINA	B9 D 759.9 122.0	37-59-52	121-22-00	10/73	300				366					267	
14 MILE SLOUGH AT PLYMOUTH STREET	B9 D 800.0 120.8	37-59-58	121-20-48	10/73	300				366					267	
FRANKS TRACT NEAR RUSSOS LANDING	B9 D 802.6 136.8	38-02-38	121-36-49	04/68	304			341	369	384				267	
GENERAL CREEK NEAR MEEKS BAY (T-3)	G7 3300.01	39-03-15	120-06-49	07/68	320			352	380					261	
GEORGIANA SLOUGH NEAR ISLETON	B9 D 809.0 135.8	38-09-03	121-35-47	03/74	313			348	375					266	
GRANT LINE CANAL AT TRACY ROAD BRIDGE	B9 D 749.2 126.9	37-49-13	121-26-55	07/58	291			333	362					267	
GRINDSTONE CREEK NEAR ELK CREEK	A3 1302.00	39-40-48	122-31-52	04/69	280			358						258	
HOG SLOUGH NEAR THORNTON	B9 D 810.1 127.9	38-10-06	121-27-55	10/68	314			348	376					266	
INCLINE CREEK AT INCLINE VILLAGE (T-2)	G7 3253.01	39-14-30	119-56-33	07/68	320			352	380					261	
JACKSON CREEK NEAR AMADOR COUNTY HOSPITAL	B2 0192.01	38-21-13	120-45-42	10/73				332	361					261	
JACKSON CREEK ABOVE CITY OF JACKSON STP	B2 0190.20	38-20-04	120-46-56	10/73	289			332	361					261	
JACKSON CREEK BELOW CITY OF JACKSON STP	B2 0185.01	38-20-38	120-47-12	10/73	288			332	360					261	
JACKSON CREEK AT JAPUR ROAD BRIDGE	B2 0180.01	38-18-54	120-50-00	10/73	288			332	360					261	
JACKSON CREEK BELOW NEW YORK GULCH	B2 0193.01	38-21-44	120-44-14	10/73				332	361					261	
JACKSON CREEK ABOVE SOUTH FORK JACKSON CREEK	B2 0191.01	38-20-52	120-46-19	10/73				332	361					261	
LAKE ALMANOR, EAST ARM, CENTER	A5 L 014.3 106.5	40-14-18	121-06-30	10/72	282			359				402		259	
LAKE ALMANOR AT INTAKE TOWER NEAR DAM	A5 L 010.7 105.1	40-10-40	121-05-06	09/69	282			359				402		259	
LAKE ALMANOR NEAR MUD CREEK MOUTH	A5 L 017.6 112.0	40-17-36	121-12-00	06/73	283			359				402		259	
LAKE ALMANOR, WEST ARM CENTER	A5 L 015.5 111.1	40-15-30	121-11-06	10/72	283			359				402		259	
LAKE TAHOE AT CAMP RICHARDSON - EDWARDS PIER	G7 L 856.3 002.3	38-56-20	120-02-18	05/73	318			350	378					261	
LAKE TAHOE AT CARNELIAN BAY - SIERRA BOAT CO	G7 L 913.5 004.9	39-13-32	120-04-51	08/73	319			351	379					261	
LAKE TAHOE AT KINGS BEACH PIER (S-7)	G7 L 914.2 002.3	39-14-14	120-02-16	07/71	319			351	379					261	
LAKE TAHOE AT KINGS CASTLE PIER (S-4)	G7 L 914.2 956.6	39-14-14	119-56-37	08/71	319			351	379					261	
LAKE TAHOE AT GLENBROOK BAY PIER (S-3)	G7 L 905.3 956.4	39-05-13	119-56-24	08/71	319			351	379					261	
LAKE TAHOE AT MEEKS BAY RESORT PIER (S-12)	G7 L 902.3 007.2	39-02-19	120-07-14	08/71	319			351	379					261	
LAKE TAHOE - NORTH CENTER (C-2)	G7 L 908.7 000.3	39-08-42	120-00-15	07/68	319			351	379					261	
LAKE TAHOE AT RUBICON BAY PIER (S-2)	G7 L 900.9 006.82	39-00-52	120-06-50	07/71	319			351	379					261	
LAKE TAHOE - SOUTH CENTER (C-1)	G7 L 900.0 000.0	39-00-00	120-00-00	07/68	318			351	378					261	
LAKE TAHOE AT STATELINE - LAKESIDE MARINA PIER	G7 L 857.6 957.1	38-57-33	119-57-03	05/73	318			351	378					261	
LAKE TAHOE AT SURF AND SANDS PIER (S-10)	G7 L 857.0 958.02	38-57-00	119-58-00	07/71	318			350	378					261	
LAKE TAHOE AT TAHOE KEYS PIER (S-1)	G7 L 856.3 000.5	38-56-18	120-00-29	08/71	318			350	378					261	
LAKE TAHOE AT U.S. COAST GUARD PIER (S-5)	G7 L 910.8 007.12	39-10-50	120-07-05	08/71	319			351	379					261	

TABLE D-1 (Continued)  
SAMPLING STATION DATA AND INDEX

STATION NAME	STATION NUMBER	LOCATION		RECORD BEGAN	DATA ON PAGES INDICATED										
		LATITUDE ° ' "	LONGITUDE ° ' "		TABLE										
					D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10	FIGURE D-1 D-2	
LAKE TAHOE AT WARD CREEK PIER (S-11)	G7 L 907.8 009.2	39-07-50	120-09-09	08/71	319			351	379					261	
LAKE TAHOE AT ZEPHYR COVE PIER (S-8)	G7 L 900.4 956.9	39-00-26	119-56-56	08/71	318			351	379					261	
LONG VALLEY CREEK NEAR HALELUAJAH JUNCTION	G6 1705.00	39-46-55	120-04-14	03/71	318	327		378						259	
MADDEN CREEK NEAR MOUTH (T-10)	G7 3160.01	39-05-27	120-09-43	08/71	320			352	379					261	
MCCLOUD RIVER ABOVE SHASTA LAKE	A2 2150.00	40-57-30	122-13-05	04/51	280									256	
MIDDLE RIVER AT BACON ISLAND BRIDGE	B9 D 757.4 131.7	37-57-21	121-31-40	03/74	295			336	364					267	
MIDDLE RIVER AT BORDEN HIGHWAY	B9 D 753.5 129.3	37-53-28	121-29-20	09/68	293	325		335	363	383				267	
MIDDLE RIVER AT HEAD	B9 D 749.5 122.7	37-49-28	121-22-41	09/73	292			334	362					267	
MILL CREEK NEAR MOUTH NEAR LOS MOLINOS	A0 4420.50	40-02-35	122-05-55	07/52	277	323		357						258	
MOKELUMNE RIVER, NORTH FORK, AT BROAD SLOUGH	B9 D 808.7 133.4	38-08-44	121-33-24	03/74	312			347	375					266	
MOKELUMNE RIVER, SOUTH FORK, AT STATEN ISLAND	B9 D 807.0 129.9	38-07-02	121-29-51	11/72	311			346	374					267	
MOKELUMNE RIVER, SOUTH FORK, BELOW SYCAMORE SLU	B9 D 807.6 129.7	38-07-34	121-29-43	03/74	311			346	374					267	
MOKELUMNE RIVER NEAR THORNTON	B9 D 815.3 126.3	38-15-20	121-26-21	02/68	315	326		349	377	384				266	
MOKELUMNE RIVER AT WOODBRIDGE	B0 2105.00	38-09-30	121-18-10	04/51	286							395		261	
NATOMAS EAST MAIN DRAIN AT SACRAMENTO	A0 V 836.3 128.4	38-36-18	121-28-25	10/69				354	382					261	
NATOMAS MAIN DRAIN TO SACRAMENTO RIVER	A0 V 836.4 131.4	38-36-22	121-31-25	04/72					354	382				260	
NEW YORK SLOUGH NEAR PITTSBURG POINT	B9 D 801.9 151.4	38-01-54	121-51-25	09/68	303			340	368					267	
OLD RIVER ABOVE HEAD OF MIDDLE RIVER	B9 D 749.1 121.6	37-49-07	121-21-34	09/73	291			333	362					267	
OLD RIVER BELOW HEAD OF MIDDLE RIVER	B9 D 748.6 123.5	37-48-33	121-23-31	09/73	291									267	
OLD RIVER AT HOLLAND TRACT	B9 D 800.5 134.8	38-00-27	121-34-47	04/68	300			338	366					267	
OLD RIVER OPPOSITE RANCHO DEL RIO	B9 D 758.2 134.3	37-58-14	121-34-19	07/73	296			336	364					267	
OLD RIVER AT TRACY ROAD BRIDGE	B9 D 748.3 126.9	37-48-17	121-26-55	02/68	290			333	361					267	
PAYNES CREEK NEAR RED BLUFF	A4 6050.01	40-18-54	122-04-12	10/58	282									258	
PIT RIVER NEAR CANBY	A1 1680.00	41-24-23	120-55-38	04/51	278	323		358	382					257	
PIT RIVER NEAR MONTGOMERY CREEK	A1 1020.00	40-50-30	122-01-00	04/51	278	323		358						256	
PIT RIVER, SOUTH FORK, NEAR LIKELY	A1 4400.00	41-13-51	120-26-10	08/58	279									257	
PUTAH CREEK NEAR WINTERS	A9 1250.00	38-30-55	122-04-50	12/51	285									260	
RED BANK CREEK NEAR RED BLUFF	A0 3460.00	40-05-25	122-24-45	01/59	275									258	
ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE	B9 D 758.6 138.3	37-58-35	121-38-19	09/52	297			337	365					267	
R-D 70 DRAINAGE TO SACRAMENTO RIVER	A0 2965.00	39-04-06	121-51-42	08/69	273	323		356						260	
R-D 108 DRAINAGE TO SACRAMENTO RIVER	A0 2933.00	38-51-48	121-47-30	08/69	272	323		355	382					260	
R-D 787 DRAINAGE TO COLUSA BASIN DRAIN	A0 2950.00	38-48-06	121-43-36	08/69	272	323		356						260	
R-D 787 DRAINAGE TO SACRAMENTO RIVER	A0 2955.00	38-50-48	121-43-48	08/69	273	323		356						260	
R-D 1001 DRAINAGE TO NATOMAS CROSS CANAL	A0 V 847.4 135.8	38-47-25	121-35-47	04/72				354	382					260	
R-D 1500 DRAINAGE TO SACRAMENTO SLOUGH	A0 2926.00	38-47-06	121-39-18					355						260	
SACRAMENTO RIVER AT BEND BRIDGE	A0 2785.00	40-15-48	122-13-19	01/57	271	323		355	382					258	
SACRAMENTO RIVER AT BUTTE CITY	A0 2500.00	39-27-25	121-59-35	01/57	271									258	
SACRAMENTO RIVER AT COLUSA	A0 2420.00	39-12-48	121-59-54	10/58	270									258	
SACRAMENTO RIVER ABOVE COLUSA BASIN DRAIN	A0 2230.02	38-48-29	121-43-25	07/60	270	323		354	382					260	
SACRAMENTO RIVER AT DELTA	A2 1300.00	40-56-20	122-24-55	04/51	279									256	
SACRAMENTO RIVER AT ELKHORN FERRY	A0 2112.00	38-40-33	121-37-15	08/69	269				354					260	
SACRAMENTO RIVER AT EMMATON	B9 D 805.1 144.3	38-05-04	121-44-17	10/67	308			344	372	384				267	
SACRAMENTO RIVER AT FREMONT WEIR, WEST END	A0 2170.00	38-45-34	121-39-59	06/65	269				354	382				260	
SACRAMENTO RIVER AT GREENES LANDING	B9 D 820.7 132.7	38-20-45	121-32-42	07/62	316	326	329	350	377	384				266	
SACRAMENTO RIVER AT HAMILTON CITY	A0 2630.00	39-45-06	121-59-48	04/51	271	323		355						258	
SACRAMENTO RIVER AT KESWICK	A2 1010.00	40-36-40	122-26-45	04/51	279	323		358						256	
SACRAMENTO RIVER BELOW KNIGHTS LANDING	A0 2195.01	38-45-48	121-40-45	07/67	269									260	
SACRAMENTO RIVER ABOVE POINT SACRAMENTO	B9 D 803.8 149.2	38-03-45	121-49-10	03/71	306	325		343	371	384				267	
SACRAMENTO RIVER BELOW RIO VISTA BRIDGE	B9 D 809.4 141.0	38-09-27	121-41-01	01/68	313	326		348	376	384				266	
SACRAMENTO RIVER NEAR RYDE	B9 D 814.5 133.2	38-14-28	121-33-09	03/74	314			349	376					266	
SACRAMENTO RIVER AT WALNUT GROVE	B9 D 814.5 130.8	38-14-32	121-30-48	12/60							390			266	
SACRAMENTO SLOUGH AT SACRAMENTO RIVER	A0 2925.00	38-46-50	121-38-20	01/51	271			355						260	
SAN JOAQUIN RIVER AT ANTIOCH	B9 D 801.1 148.1	38-01-04	121-48-06	04/51							390	400		267	
SAN JOAQUIN RIVER AT ANTIOCH BRIDGE (AT LT 12)	B9 D 801.6 145.2	38-01-38	121-45-12	06/60	302	325		340	368					267	
SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL	B9 D 801.2 148.5	38-01-15	121-48-28	01/68	301	325		339	367	383				267	
SAN JOAQUIN RIVER AT BLIND POINT	B9 D 801.9 143.2	38-01-57	121-43-09	05/68	303									267	
SAN JOAQUIN RIVER AT BRANDT BRIDGE	B9 D 751.9 119.3	37-51-53	121-19-19	03/57	293			334	363					267	
SAN JOAQUIN RIVER AT BUCKLEY COVE	B9 D 758.7 122.9	37-58-42	121-22-55	02/68	297			337	365	383				267	
SAN JOAQUIN RIVER BELOW FAIRCHILD SCHOOL	B9 D 753.8 119.6	37-53-47	121-19-38	09/73	294									267	
SAN JOAQUIN RIVER BELOW HEAD OF OLD RIVER	B9 D 748.6 119.4	37-48-37	121-19-21	09/73	291									267	
SAN JOAQUIN RIVER AT HIGHWAY 4	B9 D 755.7 119.6	37-55-42	121-19-38	09/52	294			335	363					267	
SAN JOAQUIN RIVER AT JERSEY POINT	B9 D 803.1 141.3	38-03-09	121-41-17	10/67	306	325		342	370	384				267	
SAN JOAQUIN RIVER AT MOSSDALE BRIDGE	B9 D 747.2 118.4	37-47-11	121-18-22	09/52	289			332	361	383	388	398		267	
SAN JOAQUIN RIVER NEAR MOUTH OF MIDDLE RIVER	B9 D 802.9 132.0	38-02-54	121-32-01	03/74	305			342	370					267	
SAN JOAQUIN RIVER AT POTATO POINT	B9 D 804.7 134.0	38-04-40	121-34-00	03/71	307	326		343	371	384				267	
SAN JOAQUIN RIVER AT RINDGE PUMP	B9 D 759.8 125.1	37-59-51	121-25-06	01/65	300				366		389			267	
SAN JOAQUIN RIVER NEAR SAN ANDREAS LANDING	B9 D 805.9 135.2	38-05-53	121-35-13	03/74	310			345	373					267	
SAN JOAQUIN RIVER BELOW SANTA FE RR CROSSING	B9 D 756.3 120.1	37-56-20	121-20-07	09/73	294			335	363					267	
SAN JOAQUIN RIVER AT TWITCHELL ISLAND	B9 D 805.8 140.1	38-05-50	121-40-05	02/68	309			345	373					267	
SAN JOAQUIN RIVER NEAR VERNALIS	B0 7020.00	37-40-34	121-15-51	04/51	287	324	329	331	360	383				261	
SAN JOAQUIN RIVER AT U.S. NAVAL RES RR CROSSING	B9 D 756.9 120.2	37-56-54	121-20-10	09/73	294									267	
SHERMAN LAKE NEAR ANTIOCH	B9 D 802.6 147.6	38-02-34	121-47-34	11/68	304			341	369					267	
SNOGRASS SLOUGH AT SOUTHERN PACIFIC RR BRIDGE	B9 D 819.1 130.1	38-19-03	121-30-04	10/68	316			350	377					266	
SQUIRREL CREEK NEAR PENN VALLEY	A6 1265.00	39-12-38	121-12-04	07/72	283			359			388	393		259	
STOCKTON DEEP WATER CHANNEL TURNING BASIN	B9 D 757.2 119.2	37-57-09	121-19-12	09/74				336						267	
STOCKTON DIVERTING CANAL AT STOCKTON	B0 2580.00	37-58-53	121-14-54	08/69	286									261	
STOCKTON SHIP CHANNEL AT BURNS CUTOFF	B9 D 757.8 121.9	37-57-46	121-21-54	10/70							389	399		267	
STOCKTON SHIP CHANNEL AT LIGHT 18	B9 D 801.3 127.9	38-01-18	121-27-54	09/73	302			340	368					267	
STOCKTON SHIP CHANNEL AT LIGHT 24	B9 D 759.6 125.9	37-59-34	121-27-54	09/73	299									267	
STOCKTON SHIP CHANNEL AT LIGHT 36	B9 D 759.1 123.6	37-59-08	121-23-33	09/73	299			338						267	

TABLE D-1 (Continued)  
SAMPLING STATION DATA AND INDEX

STATION NAME	STATION NUMBER	LOCATION		RECORD BEGAN	DATA ON PAGES INDICATED										FIGURE D-1 D-2	
		LATITUDE ° ' "	LONGITUDE ° ' "		TABLE											
					D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10			
STOCKTON SHIP CHANNEL AT LIGHT 40	B9 D 758.7 123.0	37-58-42	121-22-57	09/73	298											267
STOCKTON SHIP CHANNEL AT LIGHT 41	B9 D 758.1 122.2	37-58-06	121-22-14	09/73	296				336							267
STOCKTON SHIP CHANNEL AT LIGHT 43	B9 D 757.6 121.5	37-57-34	121-21-31	09/73	295				336 364							267
STOCKTON SHIP CHANNEL AT LIGHT 48	B9 D 757.1 120.2	37-57-07	121-20-12	09/73	294				335 364							267
STONY CREEK BELOW BLACK BUTTE DAM	A3 1110.00	39-49-00	122-20-10	01/58	280 323				358							258
STONY CREEK NEAR FRUTO	A3 1250.00	39-40-15	122-31-05	02/60	280 323				358 382							258
SUGAR CUT AT MOUTH	B9 D 748.0 125.2	37-48-02	121-25-12	09/73	290				333 361							267
SUSAN RIVER NEAR LITCHFIELD	G4 1590.01	40-22-45	120-23-35	11/68	317 327				378 385							259
SUSAN RIVER AT SUSANVILLE	G4 1600.00	40-25-05	120-40-15	04/51	317 327				378							259
SYCAMORE SLOUGH AT DRAIN	B9 D 808.8 125.8	38-08-48	121-25-46	02/69	313				347 375							266
SYCAMORE SLOUGH NEAR MOUTH	B9 D 808.5 128.0	38-08-28	121-28-00	03/74	312				347 374							266
TAYLOR CREEK NEAR CAMP RICHARDSON (T-4)	G7 3571.01	38-55-50	120-03-13	07/68	320				352 380							261
THERMALITO AFTERBAY RELEASE TO FEATHER RIVER	A0 5975.00	39-27-24	121-38-09								386					258
THIRD CREEK NEAR MOUTH (T-6)	G7 3230.01	39-14-26	119-56-46	08/71	320				352 380							261
THOMES CREEK AT PASKENTA	A3 2120.00	39-52-55	122-33-05	10/58	281				358							258
THOMES CREEK AT RICHFIELD	A0 3220.01	39-58-45	122-10-35	01/59	275											258
TROUT CREEK AT SOUTH LAKE TAHOE (T-9)	G7 3810.00	38-55-55	119-58-40	08/71	320				352 380							261
TRUCKEE RIVER AT FARAD	G7 1195.00	39-25-13	120-01-51	04/51	319											259
TURNER CUT AT MCDONALD ISLAND FERRY	B9 D 758.8 128.5	37-58-47	121-28-27	03/74	298				338 366							267
UPPER TRUCKEE RIVER NEAR MOUTH (T-1)	G7 3705.01	38-55-24	119-59-28	07/68	320				352 380							261
WARD CREEK NEAR MOUTH (T-5)	G7 3050.01	39-07-57	120-09-24	08/71	320				351 379							261
WEST CANAL AT MOUTH OF INTAKE TO CLIFTON CT FBY	B9 D 749.8 133.2	37-49-50	121-33-09	03/73	292 324				334 362 383							267
WEST WALKER RIVER BELOW LITTLE WALKER RIVER	G9 2460.00	38-22-48	119-27-00	08/58	321											262
WHITE SLOUGH AT CORREIA FERRY (SITE)	B9 D 805.0 128.1	38-05-01	121-28-07	03/74	308				344 372							267
WHITE SLOUGH NEAR LODI	B9 D 805.2 126.0	38-05-07	121-26-03	10/68	309				345 373							267
WHITE SLOUGH AT RIO BLANCO TRACT	B9 D 805.2 124.1	38-05-14	121-24-07	10/68	309				345 372							267
YOLO BYPASS BELOW SACRAMENTO BYPASS	A0 2905.00	38-35-06	121-35-00	04/72					355 382							260
YUBA RIVER AT MARYSVILLE	A0 6120.00	39-08-32	121-34-30	04/51	277						387 391					258



267

## TABLE D-2

### MINERAL ANALYSES OF SURFACE WATER

#### Sampler and Lab Agency Codes

2163 - Department of Water Resources for SWRCB  
 5001 - U. S. Bureau of Reclamation  
 5050 - Department of Water Resources

#### Abbreviations

TIME - Pacific Standard Time on a 24-hour clock  
 G.H. - Instantaneous gage height in feet above an established datum  
 Q - Instantaneous discharge in cubic feet per second  
 DEPTH - Depth in feet at which sample was collected (COM = Composite)  
 DO - Dissolved oxygen content in milligrams per liter  
 SAT - Percent of normal dissolved oxygen saturation  
 TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)  
 PH - Measure of acidity (<7) or alkalinity (>7) of water  
 EC - Electrical conductance in micromhos at 25° Celsius  
 TDS - Gravimetric determination of total dissolved solids at 180° C  
 SUM - Total dissolved solids by summation of analyzed constituents  
 TH - Total hardness  
 NCH - Noncarbonate hardness - any excess of total hardness over total alkalinity  
 TURB - Jackson Turbidity Units measured with a Hellige Turbidimeter (E) or a Hack Nephelometer (A) with (F) for field determination  
 SAR - Sodium adsorption ratio

PERCENT REACTANCE VALUE is determined by dividing the sum of the cations or anions in milliequivalents per liter into each constituent in milliequivalents per liter, arriving at a percentage. For a partial analysis, an approximate value is determined by multiplying the electrical conductance by 0.01 and using that as the cation or anion sum

#### Mineral Constituents

B	-	Boron	K	-	Potassium
CA	-	Calcium	MG	-	Magnesium
CL	-	Chloride	NA	-	Sodium
C03	-	Carbonate	N03	-	Nitrate
F	-	Fluoride	SI02	-	Silica
HC03	-	Bicarbonate	S04	-	Sulfate

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	B	F S102	TDS SUM	TH NCH	TURB SAR
A0 2112.00 SACRAMENTO RIVER AT ELKHORN FERRY																			
10/17/73 0715	5050 5050		9.9 99	60 16	F 7.5 C 114	--	--	--	--	--	--	--	--	--	--	--			5A
11/14/73 0800	5050 5050		9.6 89	54 12	F 7.2 C 86	--	--	--	--	--	--	--	--	--	--	--			52A
12/19/73 0900	5050 5050		10.9 94	48 9	F 7.2 C 117	--	--	--	--	--	--	--	--	--	--	--			18A
01/16/74 0740	5050 5050		11.4 98	46 9	F 7.2 C 100	--	--	--	--	--	--	--	--	--	--	--			24A
02/20/74 1230	5050 5050		11.8 102	48 9	F 7.2 C 112	--	--	--	--	--	--	--	--	--	--	--			38A
03/20/74 0800	5050 5050		11.2 103	53 12	F 7.3 C 103	--	--	--	--	--	--	--	--	--	--	--			27A
04/17/74 0800	5050 5050		11.1 106	56 13	F 7.3 C 106	--	--	--	--	--	--	--	--	--	--	--			22A
05/15/74 0800	5050 5050		9.3 93	60 16	F 7.3 C 114	--	--	--	--	--	--	--	--	--	--	--			20A
06/19/74 0750	5050 5050		8.6 91	65 18	F 7.3 C 113	--	--	--	--	--	--	--	--	--	--	--	75		15A
07/17/74 0740	5050 5050		7.6 84	69 21	F 7.4 C 126	--	--	--	--	--	--	--	--	--	--	--			11A
08/21/74 0700	5050 5050		8.5 92	67 19	F 7.3 C 114	--	--	--	--	--	--	--	--	--	--	--			11A
09/18/74 1005	5050 5050		8.8 93	65 18	F 7.4 C 151	--	--	--	--	--	--	--	--	--	--	--			11A
A0 2170.00 SACRAMENTO RIVER AT FREMONT WEIR, WEST END																			
10/17/73 1000	5050 5050	16.87	9.9 99	60 16	F 7.5 C 147	11 .55 36	6.0 .49 32	10 .44 29	1.2 .03 2	0 .00 2	72 1.18 79	8.6 .18 12	4.5 .13 9	.4 .01 1	.10	--	93 77	52 0	8A 0.6
11/14/73 1100	5050 5050	33.03	9.1 86	55 13	F 7.2 C 105	8.4 .42 40	4.1 .34 32	6.0 .26 25	1.6 .04 4	0 .00 4	44 .72 73	7.4 .15 15	3.8 .11 11	.5 .01 1	.00	--	82 53	38 2	150A 0.4
12/19/73 1030	5050 5050	31.45	10.6 92	49 9	F 7.2 C 133	11 .55 39	5.7 .47 33	8.2 .36 26	1.0 .03 2	0 .00 2	64 1.05 73	12 .25 17	4.3 .12 8	.7 .01 1	.10	--	63 74	51 0	30A 0.5
01/16/74 0830	5050 5050	34.87	11.2 96	48 9	F 7.2 C 137	11 .55 38	5.7 .47 32	9.4 .41 28	1.1 .03 2	0 .00 2	63 1.03 72	12 .25 17	5.2 .15 10	.7 .01 1	.10	--	65 76	51 0	50A 0.6
03/20/74 1000	5050 5050	34.07	11.4 105	53 12	F 7.3 C 129	10 .50 40	5.4 .44 35	6.9 .30 24	.9 .02 2	0 .00 2	58 .95 77	9.7 .20 16	3.0 .08 6	.4 .01 1	.00	--	87 65	48 0	50A 0.4
04/17/74 1010	5050 5050	34.27	11.3 108	56 13	F 7.4 C 130	12 .60 45	5.2 .43 33	6.0 .26 20	1.0 .03 2	0 .00 2	65 1.07 81	7.2 .15 11	3.2 .09 7	.8 .01 1	.10	--	88 67	52 0	40A 0.4
05/15/74 1000	5050 5050	23.42	9.3 94	61 16	F 7.3 C 143	11 .55 37	6.7 .55 37	8.4 .37 25	.9 .02 1	0 .00 1	68 1.11 72	14 .29 19	4.6 .13 8	.8 .01 1	.00	--	95 80	55 0	19A 0.5
06/19/74 1100	5050 5050	19.08	8.7 92	65 18	F 7.4 C 139	11 .55 36	6.2 .51 34	9.7 .42 28	1.4 .04 3	0 .00 3	65 1.07 75	10 .21 15	4.8 .14 10	.7 .01 1	.10	--	108 76	53 0	32A 0.6
07/17/74 1000	5050 5050	20.15	8.1 90	69 21	F 7.4 C 181	11 .55 29	8.5 .70 37	14 .61 32	.9 .02 1	0 .00 1	79 1.29 73	13 .27 15	6.8 .19 11	.6 .01 1	.10	--	120 94	63 0	16A 0.8
08/21/74 0950	5050 5050	20.67	8.8 94	66 19	F 7.5 C 192	12 .60 31	8.8 .72 37	14 .61 31	.9 .02 1	0 .00 1	88 1.44 78	13 .27 15	4.3 .12 7	.7 .01 1	.00	--	116 97	66 0	21A 0.7
09/18/74 1140	5050 5050		8.8 93	65 18	F 7.4 C 187	13 .65 36	7.2 .59 33	12 .52 29	1.0 .03 2	0 .00 2	82 1.34 77	12 .25 14	5.3 .15 9	.4 .01 1	.00	--	121 91	62 0	0.7
A0 2195.01 SACRAMENTO RIVER BELOW KNIGHTS LANDING																			
10/18/73 1425	5050 5050	8040E	11.8 119	66.8F 16.0C	7.8 7.7	156 154	--	--	9.7 .42 27	0 .00	79 1.29	--	4.2 .12	--	.00	--		58	12A 0.6
05/24/74 0950	5050 5050	20.98	8.5 89	64.4F 18.0C	7.4	194	--	--	--	--	--	--	--	--	--	--			22AF
06/27/74 1600	5050 5050	18.04 10200E	10.3 113	68.0F 20.0C	7.4	148	--	--	--	--	--	--	--	--	--	--			22AF

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	OO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					TDS SUM	7H NCH	TURB SAR
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SI02						
.....																							
A0 2195.01 SACRAMENTO RIVER BELOW KNIGHTS. LANDING CONTINUED																							
07/23/74 1535	5050	9050E	10.3 117	71.6F 22.0C	7.2 151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17AF	
08/27/74 1425	5050	10380	9.0 99	68.9F 20.5C	7.8 183	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14AF	
09/25/74 1400	5050	8900	8.8 94	66.2F 19.0C	7.9 184	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10AF	
A0 2230.02 SACRAMENTO RIVER ABOVE COLUSA BASIN DRAIN																							
10/18/73 1225	5050 5050	18.35 7940	11.9 120	60.8F 16.0C	7.6 142 7.6 139	--	--	8.2 .36 25	--	0 .00	74 1.21	--	3.4 .10	--	.00	--	--	--	54	4A 0.5	--	--	
11/27/73 1255	5050 5050	36.77 26000	11.7 106	51.8F 11.0C	7.3 114 8.0 112	9.8 .49 44	4.5 .37 33	5.6 .24 21	.9 .02 2	0 .00	55 .90 81	6.1 .13 12	2.4 .07 6	.5 .01 1	.00	--	--	79 57	43 0	27A 0.4	--	--	
12/19/73 1300	5050 5050	33.97 27300	11.7 102	49.1F 9.5C	7.3 115	--	--	--	--	--	--	--	--	--	--	--	--	--	25AF	--	--		
01/22/74 1645	5050 5050	39.23 27800	12.4 107	48.2F 9.0C	7.4 121 7.9 130	--	--	6.2 .27 21	--	0 .00	60 .98	--	2.8 .08	--	.00	--	--	51	240A 0.4	--	--		
02/19/74 1020	5050 5050	30.03 22900	11.8 102	48.2F 9.0C	7.4 115	--	--	--	--	--	--	--	--	--	--	--	--	60AF	--	--			
03/21/74 1215	5050 5050	36.01 25900	12.2 113	53.6F 12.0C	7.6 112	--	--	--	--	--	--	--	--	--	--	--	--	38AF	--	--			
04/24/74 1225	5050 5050	28.09 18000	10.0 98	58.1F 14.5C	8.2 7.7 168	--	--	7.4 .32 19	--	0 .00	82 1.34	--	3.3 .09	--	.00	--	--	68	48A 0.4	--	--		
05/23/74 1340	5050 5050	23.88 12790	9.0 93	62.6F 17.0C	7.4 138	--	--	--	--	--	--	--	--	--	--	--	--	21AF	--	--			
06/27/74 1600	5050	9975	10.4 114	68.0F 20.0C	7.4 127	--	--	--	--	--	--	--	--	--	--	--	--	31AF	--	--			
07/23/74 1535	5050	9050	10.3 119	73.4F 23.0C	7.3 127	--	--	--	--	--	--	--	--	--	--	--	--	3AF	--	--			
08/27/74 1210	5050	10380	9.6 105	68.0F 20.0C	7.6 128	--	--	--	--	--	--	--	--	--	--	--	--	12AF	--	--			
09/25/74 1200	5050	8900	9.3 101	67.1F 19.5C	7.8 143	--	--	--	--	--	--	--	--	--	--	--	--	11AF	--	--			
A0 2420.00 SACRAMENTO RIVER AT COLUSA																							
10/18/73 0920	5050 5050	42.29 6820	12.0 119	59.0F 15.0C	7.4 138 7.6 140	--	--	8.2 .36 25	--	0 .00	76 1.25	--	3.0 .08	--	.10	--	--	55	4A 0.5	--	--		
11/27/73 1055	5050 5050	62.34 37200	12.0 109	51.8F 11.0C	7.4 113 7.6 112	--	--	6.2 .27 24	--	0 .00	57 .93	--	1.6 .05	--	.00	--	--	43	26A 0.4	--	--		
12/19/73 1100	5050 5050	59.90 30900	12.2 105	48.2F 9.0C	7.4 113	--	--	--	--	--	--	--	--	--	--	--	--	26AF	--	--			
01/22/74 1130	5050 5050	66.01 43700	12.6 109	48.2F 9.0C	7.4 114	--	--	--	--	--	--	--	--	--	--	--	--	112AF	--	--			
02/19/74 0850	5050 5050	54.05 21800	12.5 108	48.2F 9.0C	7.3 120	--	--	--	--	--	--	--	--	--	--	--	--	61AF	--	--			
03/21/74 0925	5050 5050	61.22 32800	12.0 107	50.9F 10.5C	7.6 112	--	--	--	--	--	--	--	--	--	--	--	--	40AF	--	--			
04/24/74 1030	5050 5050	48.69 14800	10.2 99	57.2F 14.0C	7.3 163	--	--	--	--	--	--	--	--	--	--	--	--	33AF	--	--			
05/23/74 0955	5050 5050	47.68 13500	9.3 94	60.8F 16.0C	7.4 127	--	--	--	--	--	--	--	--	--	--	--	--	14AF	--	--			
06/27/74 0935	5050	45.97 11300	11.0 116	64.4F 18.0C	7.6 114	--	--	--	--	--	--	--	--	--	--	--	--	16AF	--	--			
07/23/74 1015	5050	45.01 10100	10.4 112	66.2F 19.0C	7.5 107	--	--	--	--	--	--	--	--	--	--	--	--	11AF	--	--			
08/27/74 0930	5050 5050	45.80 11100	10.0 103	62.6F 17.0C	7.4 107 7.8 105	--	--	5.6 .24 22	--	0 .00	55 .90	--	2.0 .06	--	.10	--	--	42	8A 0.4	--	--		



TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.M. Q DEPTH	OO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR						
A0 2420.00 SACRAMENTO RIVER AT COLUSA CONTINUED																									
09/25/74 0950	5050	43.62 8440	9.7 100	62.6F 17.0C	7.6 121	--	--	--	--	--	--	--	--	--	--	--	--	--						8AF	
A0 2500.00 SACRAMENTO RIVER AT BUTTE CITY																									
11/27/73 0920	5050 5050	82.32 44300	12.6 114	51.8F 11.0C	7.2 115 7.4 111	--	--	6.2 .27 26	--	0 .00	56 .92	--	1.3 .04	--	.00 --	--	--	38	24A 0.4						
01/22/74 0930	5050 5050	90.89 92900	12.9 110	47.3F 8.5C	7.2 113	--	--	--	--	--	--	--	--	--	--	--	--	164AF							
03/21/74 0820	5050 5050	80.51 38200	12.3 111	51.8F 11.0C	7.3 110	--	--	--	--	--	--	--	--	--	--	--	--	35AF							
05/23/74 0815	5050 5050	73.46 13100	9.8 95	57.2F 14.0C	7.3 125	--	--	--	--	--	--	--	--	--	--	--	--	14AF							
07/23/74 0845	5050 5050	72.23 10100	10.8 114	64.4F 18.0C	7.4 103 7.8 111	--	--	5.2 .23 21	--	0 .00	56 .92	--	2.7 .08	--	.00 --	--	--	44	11A 0.3						
09/25/74 0815	5050	71.28 8070	9.4 95	60.8F 16.0C	8.0 121	--	--	--	--	--	--	--	--	--	--	--	--	6AF							
A0 2630.00 SACRAMENTO RIVER AT HAMILTON CITY																									
11/13/73 0730	5050 5050	38.11 50370	12.0 109	51.8F 11.0C	7.3 94 7.2 97	8.3 .41 41	4.2 .35 35	4.6 .20 20	1.0 .03 3	0 .00	46 .75 77	5.1 .11 11	3.4 .10 10	1.5 .02 2	.10 --	--	--	63 51	38 1	117A 0.3					
01/16/74 1340	5050 5050	47.40 123000	11.0 98	50.0F 10.0C	7.4 87 6.9 90	--	--	3.5 .15 16	--	0 .00	46 .75	--	4.9 .14	--	.20 --	--	--	38	850A 0.2						
03/12/74 0840	5050 5050	34.14 27950	11.8 102	48.2F 9.0C	7.2 120	--	--	--	--	--	--	--	--	--	--	--	--	39AF							
05/06/74 0805	5050 5050	29.36 9906	10.2 103	60.8F 16.0C	7.3 7.4 133	--	--	5.8 .25 19	--	0 .00	65 1.07	--	2.4 .07	--	.00 --	--	--	55	16A 0.3						
07/17/74 0850	5050	10590	10.0 99	59.0F 15.0C	7.3 107	--	--	--	--	--	--	--	--	--	--	--	--	11AF							
09/16/74 0815	5050	11580	10.4 101	57.2F 14.0C	7.4 104	--	--	--	--	--	--	--	--	--	--	--	--	7AF							
A0 2785.00 SACRAMENTO RIVER AT BEND BRIDGE																									
11/12/73 0815	5050 5050	28.68 40300	11.0 103	53.6F 12.0C	8.3 95 7.8 98	8.9 .44 45	3.6 .30 31	4.8 .21 21	1.2 .03 3	0 .00	46 .75 84	4.4 .09 10	1.9 .05 6	--	.00 --	--	--	72 47	37 0	90A 0.3					
01/03/74 1240	5050 5050	26.61 32450	12.6 107	46.4F 8.0C	7.2 115	--	--	--	--	--	--	--	--	--	--	--	--	9AF							
03/18/74 0850	5050 5050	27.25 35000	13.0 113	48.2F 9.0C	8.8 109 7.9 107	9.2 .46 43	4.1 .34 32	5.6 .24 22	1.0 .03 3	0 .00	50 .82 80	6.1 .13 13	2.0 .06 6	.4 .01 1	.10 --	--	--	75 53	40 0	26A 0.4					
05/21/74 0800	5050 5050	21.63 14000	10.3 93	50.9F 10.5C	7.4 7.1 104	--	--	4.9 .21 20	--	0 .00	54 .89	--	1.9 .05	--	.10 --	--	--	42	14A 0.3						
07/16/74 0800	5050	12075	9.6 90	53.6F 12.0C	7.6 100	--	--	--	--	--	--	--	--	--	--	--	--	10AF							
09/23/74 0740	5050	8550	10.0 94	54.5F 12.5C	7.2 102	--	--	--	--	--	--	--	--	--	--	--	--	6AF							
A0 2925.00 SACRAMENTO SLOUGH AT SACRAMENTO RIVER																									
10/18/73 1200	5050 5050	15.11 499	9.2 97	64.4F 18.0C	7.8 605 8.1 611	--	--	48 2.09 35	--	0 .00	228 3.74	--	73 2.06	--	.10 --	--	--	196	19A 1.5						
05/23/74 1215	5050 5050	1100	8.1 90	69.8F 21.0C	7.6 357 7.7 369	25 1.25 33	18 1.48 39	24 1.04 27	1.9 .05 1	0 .00	164 2.69 72	22 .46 12	19 .54 15	1.6 .03 1	.10 --	--	--	202 192	136 2	11A 0.9					
08/27/74 1130	5050 5050	1286	6.5 75	73.4F 23.0C	7.4 403 8.2 408	--	--	28 1.22 29	--	0 .00	207 3.39	--	21 .59	--	.10 --	--	--	149	17A 1.0						
09/25/74 1125	5050	836	6.6 75	71.6F 22.0C	7.6 512	--	--	--	--	--	--	--	--	--	--	--	--	35AF							

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCH	TURB SAR						
A0 2933.00 R-D 108 DRAINAGE TO SACRAMENTO RIVER																									
10/18/73 1330	5050 5050		12.7 136	66.2F 19.0C	8.2 650	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	194F	
11/27/73 1405	5050 5050		9.1 86	55.4F 13.0C	7.6 787	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	154F	
12/19/73 1340	5050 5050		9.3 82	50.0F 10.0C	7.9 979	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	284F	
01/22/74 1520	5050 5050	4.8	12.0 106	50.0F 10.0C	8.1 8.4 1090	--	--	117 5.09 45	--	3.0 .10	336 5.51	--	85 2.40	--	.40	--	--	--	--	--	--	--	311	40A 2.9	
02/19/74 1130	5050 5050		10.0 94	54.5F 12.5C	7.8 8.3 797	--	--	80 3.48 43	--	0 .00	288 4.72	--	53 1.49	--	.30	--	--	--	--	--	--	--	230	14A 2.3	
03/21/74 1310	5050 5050		7.9 76	57.2F 14.0C	7.6 708	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	144F	
04/24/74 1335	5050 5050		10.1 100	59.0F 15.0C	8.1 8.1 872	--	--	90 3.92 44	--	0 .00	273 4.47	--	68 1.92	--	.40	--	--	--	--	--	--	--	251	26A 2.5	
05/23/74 1505	5050 5050		6.0 69	73.4F 23.0C	7.4 441	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	214F	
06/27/74 1340	5050 5050		7.7 94	78.8F 26.0C	7.5 530	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174F	
07/23/74 1400	5050 5050		7.7 97	82.4F 28.0C	7.7 580	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	74F	
08/27/74 1320	5050 5050		6.3 73	73.4F 23.0C	7.3 624	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	214F	
09/25/74 1305	5050 5050		11.1 131	75.2F 24.0C	8.2 8.2 603	--	--	67 2.91 48	--	0 .00	199 3.26	--	39 1.10	--	.30	--	--	--	--	--	--	--	156	45A 2.3	
A0 2947.10 COLUSA BASIN DRAIN NEAR KNIGHTS LANDING																									
10/18/73 1300	5050 5050	24.03 100	16.0 178	69.8F 21.0C	8.1 8.1 712	--	--	80 3.48 47	--	0 .00	246 4.03	--	44 1.24	--	.20	--	--	--	--	--	--	--	195	15A 2.5	
11/27/73 1335	5050 5050	26.48 .0	10.7 94	49.1F 9.5C	7.8 9.2 934	39 1.95 21	36 2.96 31	103 4.48 47	3.9 .10	0 .00	270 4.43 47	162 3.37 36	54 1.52 16	2.3 .04	.20	--	--	--	--	--	542 533	244 24	28A 2.9		
12/19/73 1320	5050 5050	368	11.1 96	48.2F 9.0C	7.9 1024	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	304F	
01/22/74 1450	5050 5050	3330	11.7 101	48.2F 9.0C	8.4 506	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	954F	
02/19/74 1050	5050 5050	1960	11.9 108	51.8F 11.0C	8.3 1290	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	324F	
03/21/74 1250	5050 5050	257	14.6 152	63.5F 17.5C	8.2 1430	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	204F	
04/24/74 1310	5050 5050	210	10.1 101	59.9F 15.5C	8.1 8.2 825	--	--	85 3.70 41	--	0 .00	273 4.47	--	53 1.49	--	.30	--	--	--	--	--	--	--	264	23A 2.3	
05/23/74 1445	5050 5050	24.84 610	6.9 80	73.4F 23.0C	7.8 601	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	174F	
06/27/74 1310	5050 5050	225	8.4 104	80.6F 27.0C	8.0 700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	464F	
07/23/74 1335	5050 5050	350	6.6 86	86.0F 30.0C	7.8 569	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	94F	
08/27/74 1300	5050 5050	820	6.7 78	74.3F 23.5C	7.6 569	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	554F	
09/25/74 1235	5050 5050	600	6.7 77	72.5F 22.5C	7.9 617	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	714F	
A0 2950.00 R-D 787 DRAINAGE TO COLUSA BASIN DRAIN																									
10/18/73 1245	5050 5050	18.80 46	4.4 46	64.4F 18.0C	6.0 8.2 833 845	--	--	95 4.13 46	--	0 .00	359 5.88	--	48 1.35	--	1.40	--	--	--	--	--	--	--	246	76A 2.6	
11/27/73 1315	5050 5050	19.10 63	7.0 63	51.8F 11.0C	7.3 8.0 561 579	--	--	50 2.18 35	--	0 .00	295 4.84	--	17 .48	--	.80	--	--	--	--	--	--	--	203	22A 1.5	

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	O.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCH	TURB SAR						
Au 2950.00 R-D 787 DRAINAGE TO COLUSA BASIN DRAIN CONTINUED																									
04/24/74 1250	5050 5050	20.00	10.8 106	58.1F 14.5C	8.1 8.0	566	--	--	43 1.87 32	--	0 .00	285 4.67	--	16 .45	--	.60	--	--	--	198	22A 1.3				
05/23/74 1415	5050 5050	20.10	8.9 102	73.4F 23.0C	7.6	546	--	--	--	--	--	--	--	--	--	--	--	--	--	25AF					
06/27/74 1240	5050		6.2 77	80.6F 27.0C	7.5	632	--	--	--	--	--	--	--	--	--	--	--	--	--	9AF					
07/23/74 1305	5050		13.7 176	84.2F 29.0C	8.1	636	--	--	--	--	--	--	--	--	--	--	--	--	--	6AF					
08/27/74 1230	5050 5050	20.40	5.0 57	72.5F 22.5C	7.4 8.3	628 636	--	--	56 2.44 35	--	0 .00	291 4.77	--	32 .90	--	.50	--	--	--	222	5A 1.6				
09/25/74 1220	5050		4.7 52	69.8F 21.0C	7.5	660	--	--	--	--	--	--	--	--	--	--	--	--	--	30AF					
Au 2955.00 R-D 787 DRAINAGE TO SACRAMENTO RIVER																									
10/18/73 1355	5050 5050	18.50	7.4 79	65.3F 18.5C	7.9 8.3	983 988	--	--	80 3.48 32	--	0 .00	420 6.88	--	65 1.83	--	1.50	--	--	--	363	21A 1.8				
11/27/73 1425	5050 5050	18.20	10.6 101	56.3F 13.5C	7.8 8.2	728 744	--	--	54 2.35 29	--	0 .00	334 5.47	--	37 1.04	--	.90	--	--	--	291	37A 1.4				
12/19/73 1400	5050 5050	18.20	10.0 91	52.2F 11.2C	7.6	707	--	--	--	--	--	--	--	--	--	--	--	--	--	19AF					
01/22/74 1600	5050 5050	19.00	10.0 92	52.7F 11.5C	7.9	693	--	--	--	--	--	--	--	--	--	--	--	--	--	30AF					
02/19/74 1150	5050 5050	18.80	9.7 91	54.5F 12.5C	7.9	674	--	--	--	--	--	--	--	--	--	--	--	--	--	17AF					
03/21/74 1330	5050 5050	19.80	8.8 85	57.2F 14.0C	7.4	363	--	--	--	--	--	--	--	--	--	--	--	--	--	26AF					
04/24/74 1400	5050 5050	20.50	9.0 87	57.2F 14.0C	7.4 7.8	438	--	--	27 1.17 26	--	0 .00	193 3.16	--	16 .45	--	.20	--	--	--	163	30A 0.9				
05/23/74 1530	5050 5050	20.00	7.1 84	75.2F 24.0C	7.4	492	--	--	--	--	--	--	--	--	--	--	--	--	--	10AF					
06/27/74 1410	5050		7.7 92	77.0F 25.0C	8.2	496	--	--	--	--	--	--	--	--	--	--	--	--	--	20AF					
07/23/74 1425	5050 5050	20.00	7.3 94	84.2F 29.0C	7.3 7.8	421 494	--	--	36 1.57 31	--	0 .00	216 3.54	--	22 .62	--	.30	--	--	--	178	17A 1.2				
08/27/74 1400	5050		7.6 87	72.5F 22.5C	7.4	518	--	--	--	--	--	--	--	--	--	--	--	--	--	32AF					
09/25/74 1330	5050 5050	19.30	3.9 42	68.0F 20.0C	7.8 8.0	940 947	--	--	79 3.44 33	--	0 .00	405 6.64	--	54 1.52	--	1.10	--	--	--	347	30A 1.8				
Au 2965.00 R-D 70 DRAINAGE TO SACRAMENTO RIVER																									
10/18/73 1100	5050 5050	32.60 15	11.0 118	66.2F 19.0C	8.0 8.2	800 807	--	--	67 2.91 34	--	0 .00	338 5.54	--	85 2.40	--	.20	--	--	--	288	32A 1.7				
11/27/73 1200	5050 5050	34.20 30	9.7 90	53.6F 12.0C	7.3	548	--	--	--	--	--	--	--	--	--	--	--	--	--	15AF					
12/19/73 1215	5050 5050	33.80 32	9.8 88	50.9F 10.5C	7.6	937	--	--	--	--	--	--	--	--	--	--	--	--	--	14AF					
01/22/74 1315	5050 5050	33.60 94	11.6 101	49.1F 9.5C	7.9	902	--	--	--	--	--	--	--	--	--	--	--	--	--	26AF					
02/19/74 0945	5050 5050	33.80 35	10.4 95	52.7F 11.5C	8.1	1120	--	--	--	--	--	--	--	--	--	--	--	--	--	17AF					
03/21/74 1140	5050 5050	33.60 31	10.3 94	52.7F 11.5C	8.0	1062	--	--	--	--	--	--	--	--	--	--	--	--	--	18AF					
04/24/74 1145	5050 5050	34.20 0	9.7 95	56.1F 14.5C	8.2 8.1	1140	--	--	74 3.22 28	--	0 .00	359 5.88	--	159 4.48	--	.20	--	--	--	416	18A 1.6				
05/23/74 1120	5050 5050	34.30 70	6.0 68	71.6F 22.0C	7.7 7.8	771 787	--	--	63 2.74 35	--	0 .00	267 4.38	--	87 2.45	--	.20	--	--	--	254	12A 1.7				

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER						
							CA	MG	NA	K	CO3	MC03	SO4	CL	NO3	8	F	TDS SUM	TH NCM	TURB SAR		
.....																						
A0		2965.00		R-D 70 DRAINAGE TO SACRAMENTO RIVER										CONTINUED								
06/27/74 1130	5050	37	7.6 90	75.2F 24.0C	7.7	631	--	--	--	--	--	--	--	--	--	--	--	--	--	7AF		
07/23/74 1205	5050	37	6.6 82	80.6F 27.0C	7.5	537	--	--	--	--	--	--	--	--	--	--	--	--	--	8AF		
08/27/74 1030	5050	70	6.1 69	71.6F 22.0C	7.4	528	--	--	--	--	--	--	--	--	--	--	--	--	--	22AF		
09/25/74 1040	5050	.0	4.5 51	70.7F 21.5C	7.7	790	--	--	--	--	--	--	--	--	--	--	--	--	--	24AF		
A0		2967.00		BUTTE SLOUGH AT OUTFALL GATES																		
10/18/73 1010	5050 5050					240	--	--	--	--	--	--	--	--	--	--	--	--	--	19AF		
A0		2972.00		BUTTE SLOUGH NEAR MERIDIAN																		
10/18/73 1030	5050 5050	39.64 100	8.2 88	66.2F 19.0C	7.2 7.9	232 233	--	--	15 .65 26	--	0 .00	124 2.03	--	9.3 .26	--	.00	--	--	91	10A 0.7		
11/27/73 1130	5050 5050	52.08 13100	10.7 95	50.0F 10.0C	7.2 7.9	120 118	10 .50 42	4.6 .38 32	6.2 .27 23	1.0 .03 3	0 .00	57 .93 82	6.1 .13 11	2.4 .07 6	.8 .01 1	.00	--	82 59	44 0	20A 0.4		
12/19/73 1130	5050 5050	47.40 1840	10.2 88	48.2F 9.0C	7.2	207	--	--	--	--	--	--	--	--	--	--	--	--	--	28AF		
01/22/74 1240	5050 5050	58.22 77000	12.2 105	48.2F 9.0C	7.2 8.0	113 122	--	--	5.0 .22 19	--	0 .00	58 .95	--	1.4 .04	--	.00	--	48	248A 0.3			
02/19/74 0915	5050 5050	46.26 1280	11.2 99	50.0F 10.0C	7.3	251	--	--	--	--	--	--	--	--	--	--	--	--	--	70AF		
03/21/74 0955	5050 5050	50.59 7720	10.8 103	56.3F 13.5C	7.5	134	--	--	--	--	--	--	--	--	--	--	--	--	--	30AF		
04/24/74 1100	5050 5050	46.10 1230	9.1 88	57.2F 14.0C	7.2 7.6	209	--	--	11 .48 23	--	0 .00	115 1.88	--	4.3 .12	--	.00	--	82	36A 0.5			
05/23/74 1045	5050 5050	44.69 830	6.9 78	71.6F 22.0C	8.3	234	--	--	--	--	--	--	--	--	--	--	--	--	--	14AF		
06/27/74 1015	5050	43.03 460	8.0 98	78.8F 26.0C	7.5	297	--	--	--	--	--	--	--	--	--	--	--	--	--	10AF		
07/23/74 1050	5050 5050	42.47 380	7.7 100	85.1F 29.5C	7.8 7.9	283 296	--	--	17 .74 23	--	0 .00	166 2.72	--	4.4 .12	--	.00	--	124	14A 0.7			
08/27/74 1000	5050 5050	43.38 520	6.8 79	74.3F 23.5C	7.3 8.2	296 289	--	--	18 .78 24	--	0 .00	175 2.87	--	3.8 .11	--	.10	--	126	6A 0.7			
A0		2976.00		COLUSA BASIN DRAIN AT HIGHWAY 20																		
10/18/73 0815	5050 5050	38.14 170	10.0 103	62.6F 17.0C	7.8 8.2	729 735	--	--	81 3.52 45	--	0 .00	278 4.56	--	40 1.13	--	.60	--	217	21A 2.4			
11/27/73 1000	5050 5050	39.18 440	11.8 106	50.9F 10.5C	7.8 8.6	928 976	44 2.20 22	37 3.04 31	106 4.61 47	2.5 .06 1	11 .37 4	288 4.72 47	164 3.41 34	52 1.47 15	2.3 .04	.20	--	552 561	264 8	23A 2.8		
12/19/73 1005	5050 5050	39.96 540	11.7 101	48.2F 9.0C	8.0	947	--	--	--	--	--	--	--	--	--	--	--	--	--	22AF		
01/22/74 0945	5050 5050	39.40 88	9.9 88	50.0F 10.0C	7.8 8.1	812 956	--	--	107 4.65 49	--	0 .00	292 4.79	--	65 1.83	--	.40	--	238	34A 3.0			
01/22/74 1040	5050 5050	43.63 1210	11.5 101	49.1F 9.5C	7.9	687	--	--	--	--	--	--	--	--	--	--	--	--	--	72AF		
02/19/74 0825	5050 5050	38.23 180	10.0 87	49.1F 9.5C	8.3	1250	--	--	--	--	--	--	--	--	--	--	--	--	--	13AF		
03/21/74 0900	5050 5050	38.12 160	9.6 94	58.1F 14.5C	8.1	1280	--	--	--	--	--	--	--	--	--	--	--	--	--	18AF		
04/24/74 0920	5050 5050	38.85 270	9.9 95	56.3F 13.5C	7.6 7.9	522	--	--	48 2.09 40	--	0 .00	172 2.82	--	26 .73	--	.20	--	154	80A 1.7			
05/23/74 0900	5050 5050	43.31 1000	6.4 67	64.4F 18.0C	8.0	509	--	--	--	--	--	--	--	--	--	--	--	--	--	20AF		
06/27/74 0905	5050	40.69 520	8.2 97	75.2F 24.0C	7.7	570	--	--	--	--	--	--	--	--	--	--	--	--	--	14AF		

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	OD SAT	TEMP	FIELD LABORATORY PM EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TM NCH	TURB SAR						
A0 2976.00 COLUSA BASIN DRAIN AT HIGHWAY 20 CONTINUED																									
07/23/74 0945	5050 5050	41.78 730	7.4 89	77.0F 25.0C	7.5 7.9	447 526	--	--	48 2.09 39	--	0 .00	232 3.80	--	22 .62	--	.20 --	--	--	164	19A 1.6					
08/27/74 0845	5050	43.62 1080	6.9 78	71.6F 22.0C	7.4	478	--	--	--	--	--	--	--	--	--	--	--	--	17AF						
09/25/74 0900	5050	40.11 520	7.9 88	69.8F 21.0C	7.8	538	--	--	--	--	--	--	--	--	--	--	--	--	42AF						
A0 3220.01 THOMES CREEK AT RICHFIELD																									
03/19/74 1340	5050 5050	11.9 250E	57.2F 116	7.8 14.0C	184 8.3	185	--	--	3.9 .17 9	--	0 .00	94 1.54	--	2.5 .07	--	.00 --	--	--	83	150A 0.2					
06/25/74 1310	5050	7.7 50E	77.0F 93	7.4 25.0C	317	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF						
A0 3320.00 ELDER CREEK AT GERBER																									
11/19/73 1345	5050 5050	6.55	48.2F 9.0C	248	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18AF						
01/03/74 1015	5050 5050	6.60	39.2F 4.0C	259	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8AF						
03/19/74 1400	5050 5050	6.27 75E	66.2F 19.0C	8.3	276 271	24 1.20 40	17 1.40 47	8.0 .35 12	.8 .02 1	0 .00	156 2.56 87	12 .25 8	5.0 .14 5	.3 .00	.00 --	--	142 144	130 2	11A 0.3						
06/25/74 1335	5050	14.0 10E	78.8F 172	8.4 26.0C	407	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF						
A0 3460.00 RED BANK CREEK NEAR RED BLUFF																									
01/03/74 0900	5050 5050	4.44 68	13.5 101	37.4F 3.0C	8.0 8.1	467 502	48 2.40 46	26 2.14 41	14 .61 12	.7 .02	0 .00	243 3.98 79	46 .96 19	2.9 .08 2	1.2 .02	.10 --	--	254 258	228 28	1A 0.4					
05/20/74 0830	5050 5050	4.04 15	60.8F 16.0C	544	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF						
A0 3520.50 COTTONWOOD CREEK AT COTTONWOOD																									
10/11/73 0845	5050 5050	16.3 145	57.2F 101	7.1 14.0C	212	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF						
11/12/73 0935	5050 5050	12.3 5190	51.8F 113	8.3 11.0C	163 166	17 .85 49	6.9 .57 33	6.2 .27 16	1.4 .04 2	0 .00	75 1.23 75	12 .25 15	4.7 .13 8	2.3 .04 2	.00 --	--	102 87	71 10	260A 0.3						
12/06/73 0920	5050 5050	13.0 1450	49.1F 115	8.0 9.5C	206	--	--	--	--	--	--	--	--	--	--	--	--	--	10AF						
01/04/74 0945	5050 5050	13.9 2140	38.3F 106	7.4 3.5C	223	--	--	--	--	--	--	--	--	--	--	--	--	--	16AF						
02/14/74 0800	5050 5050	12.4 2360	44.6F 103	7.5 7.0C	272	--	--	--	--	--	--	--	--	--	--	--	--	--	10AF						
03/18/74 0925	5050 5050	11.9 2040	53.6F 111	7.9 12.0C	238	--	--	--	--	--	--	--	--	--	--	--	--	--	43AF						
04/18/74 0825	5050 5050	11.6 1370	54.5F 110	7.6 12.5C	253	--	--	8.2 .36 14	--	0 .00	128 2.10	--	3.3 .09	--	.00 --	--	--	111	25A 0.3						
05/21/74 0925	5050 5050	9.4 607	60.8F 96	8.1 16.0C	248	--	--	--	--	--	--	--	--	--	--	--	--	--	4AF						
06/24/74 0905	5050	10.0 266	72.5F 116	7.6 22.5C	264	--	--	--	--	--	--	--	--	--	--	--	--	--	1AF						
07/16/74 0930	5050	9.5 210	73.4F 111	7.6 23.0C	239	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF						
08/21/74 0800	5050	8.2 97	66.2F 89	7.2 19.0C	213	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF						
09/23/74 0905	5050	9.2 67	66.2F 100	7.2 19.0C	203	--	--	--	--	--	--	--	--	--	--	--	--	--	2AF						

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PM EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		B	F	TDS SUM	TH NCH	TURB SAR					
A0 3540.00 COTTONWOOD CREEK BELOW NORTH FORK COTTONWOOD CREEK																									
11/12/73	5050		12.2	53.6F	7.9	162	16	8.0	3.4	1.0	0	79	10	2.8	2.2	.00	--	106	73	130A					
1005	5050	3060	115	12.0C	8.0	163	.80 49	.66 40	.15 9	.03 2	.00	1.29 80	.21 13	.08 5	.04 2	--	--	82	9	0.2					
A0 3545.00 COTTONWOOD CREEK NORTH FORK NEAR 160																									
05/21/74	5050	30.42	9.4	61.7F	7.6		10	4.4	4.6	1.5	0	56	5.9	1.9	.0	.00	--	72	43	5A					
1200	5050	143	98	16.5C	7.3	107	.50 45	.36 33	.20 18	.04 4	.00	.92 84	.12 11	.05 5	.00	--	--	56	0	0.3					
07/16/74	5050	30.38	9.0	69.8F	8.0	128	--	--	5.4	--	0	63	--	4.6	--	.00	--		48	0A					
1050	5050	200	102	21.0C	8.1	123	--	--	.23 19	--	.00	1.03	--	.13	--	--	--			0.3					
09/23/74	5050	28.69	9.4	69.8F	7.7	195	--	--	12	--	0	85	--	14	--	.00	--		70	0A					
1015	5050	9.2	107	21.0C	7.9	194	--	--	.52 27	--	.00	1.39	--	.39	--	--	--			0.6					
A0 3581.00 COTTONWOOD CREEK MIDDLE FORK NEAR GAS POINT																									
05/21/74	5050		9.3	62.6F	7.9		27	15	6.3	1.0	0	152	12	4.2	.0	.10	--	142	130	0A					
1125	5050	195	98	17.0C	8.3	264	1.35 47	1.23 43	.27 9	.03 1	.00	2.49 87	.25 9	.12 4	.00	--	--	140	5	0.2					
07/16/74	5050		10.1	75.2F	8.1	280	--	--	6.9	--	0	158	--	6.9	--	.00	--		138	0A					
1020	5050	51	121	24.0C	8.3	278	--	--	.30 10	--	.00	2.59	--	.19	--	--	--			0.3					
09/23/74	5050		9.4	63.5F	8.0	341	--	--	13	--	0	176	--	17	--	.00	--		156	0A					
0945	5050	11	100	17.5C	8.3	353	--	--	.57 15	--	.00	2.88	--	.48	--	--	--			0.5					
A0 3595.00 COTTONWOOD CREEK, SOUTH FORK, NEAR COTTONWOOD																									
11/12/73	5050	5.92	12.5	52.7F	8.0	133	18	3.6	4.6	1.2	0	65	7.1	4.7	.9	.00	--	92	60	700A					
0905	5050	2080	116	11.5C	7.6	139	.90 63	.30 21	.20 14	.03 2	.00	1.07 79	.15 11	.13 10	.01 1	--	--	72	7	0.3					
01/04/74	5050	4.14	14.5	36.5F	7.6	228	--	--	--	--	--	--	--	--	--	--	--			19AF					
0900	5050	414	108	2.5C			--	--	--	--	--	--	--	--	--	--	--								
03/18/74	5050	3.31	12.2	51.8F	8.1	276	--	--	--	--	--	--	--	--	--	--	--			80AF					
1010	5050	512	112	11.0C			--	--	--	--	--	--	--	--	--	--	--								
05/21/74	5050	2.30	9.6	59.0F	7.9	282	--	--	--	--	--	--	--	--	--	--	--			6AF					
0845	5050	195	96	15.0C			--	--	--	--	--	--	--	--	--	--	--								
07/16/74	5050	1.54	9.2	71.6F	8.0	314	--	--	--	--	--	--	--	--	--	--	--			1AF					
0850		44	106	22.0C			--	--	--	--	--	--	--	--	--	--	--								
09/23/74	5050	0.90	8.4	67.1F	8.0	326	--	--	--	--	--	--	--	--	--	--	--			1AF					
0830		4E	92	19.5C			--	--	--	--	--	--	--	--	--	--	--								
A0 4321.01 ODER CREEK AT HIGHWAY 99E																									
10/10/73	5050		13.7	58.1F	8.0	168	--	--	--	--	--	--	--	--	--	--	--			1AF					
1105	5050	104	135	14.5C			--	--	--	--	--	--	--	--	--	--	--								
11/19/73	5050		14.0	46.4F	7.3	82	7.3	3.6	4.5	1.2	0	46	3.6	.5	.5	.00	--	95	33	3A					
1250	5050	1060	119	8.0C	7.8	82	.36 40	.30 34	.20 22	.03 3	.00	.75 89	.07 8	.01 1	.01 1	--	--	44	0	0.3					
12/14/73	5050		13.0	48.2F	7.4	100	--	--	5.4	--	0	58	--	1.8	--	.00	--		38	0A					
1315	5050	484	113	9.0C	7.6	99	--	--	.23 23	--	.00	.95	--	.05	--	--	--			0.4					
01/03/74	5050		14.1	39.2F	7.4	87	--	--	4.6	--	0	50	--	1.0	--	.00	--		34	1A					
1100	5050	707	108	4.0C	7.4	86	--	--	.20 23	--	.00	.82	--	.03	--	--	--			0.3					
02/13/74	5050		13.2	45.5F	7.6	99	--	--	5.4	--	0	55	--	1.9	--	.00	--		38	1A					
1220	5050	369	111	7.5C	7.9	98	--	--	.23 23	--	.00	.90	--	.05	--	--	--			0.4					
03/12/74	5050		12.4	50.0F	7.3	77	--	--	--	--	--	--	--	--	--	--	--			3AF					
1210	5050	1215	110	10.0C			--	--	--	--	--	--	--	--	--	--	--								
04/22/74	5050		10.9	59.9F	7.6		--	--	4.2	--	0	44	--	.9	--	.00	--		29	1A					
1315	5050	665	110	15.5C	7.6	79	--	--	.18 24	--	.00	.72	--	.03	--	--	--			0.3					
05/06/74	5050		10.5	60.8F	7.4	74	--	--	--	--	--	--	--	--	--	--	--			1AF					
1130		690	107	16.0C			--	--	--	--	--	--	--	--	--	--	--								
06/25/74	5050		10.0	64.4F	7.3	251	--	--	10	--	0	145	--	3.7	--	.10	--		104	1A					
0835	5050	245	106	18.0C	7.9	240	--	--	.44 17	--	.00	2.38	--	.10	--	--	--			0.4					
07/17/74	5050		9.0	76.1F	7.8	128	--	--	--	--	--	--	--	--	--	--	--			1AF					
1230		190	108	24.5C			--	--	--	--	--	--	--	--	--	--	--								
08/20/74	5050		11.4	71.6F	8.1	149	--	--	9.1	--	0	86	--	3.8	--	.10	--		57	0A					
1205	5050	152	130	22.0C	8.1	148	--	--	.40 26	--	.00	1.41	--	.11	--	--	--			0.5					
09/16/74	5050		11.0	73.4F	8.0	157	--	--	10	--	0	88	--	3.8	--	.10	--		59	0A					
1225	5050	122	128	23.0C	7.8	155	--	--	.44 27	--	.00	1.44	--	.11	--	--	--			0.6					

DATE TIME	SAMPLE LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY		MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER PERCENT REACTANCE PER LITER					MILLIGRAMS PER LITER				
					PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR	
A0 4420.50 MILL CREEK NEAR MOUTH NEAR LOS MOLINOS																					
11/19/73	5050		14.5	44.6F	7.2	89	7.3	2.9	6.2	1.0	0	37	7.7	3.3	.4	.10	--	98	30	6A	
1315	5050	895	121	7.0C	7.7	89	.36 40	.24 27	.27 30	.03 3	.00	.61 70	.16 18	.09 10	.01 1	--	--	47	0	0.5	
01/03/74	5050		14.7	39.2F	7.3	109	--	--	--	--	--	--	--	--	--	--	--			2AF	
1145	5050	471	113	4.0C												--	--				
03/12/74	5050		12.5	48.2F	7.4	96	--	--	--	--	--	--	--	--	--	--	--			3AF	
1240	5050	855	109	9.0C												--	--				
05/06/74	5050		10.8	59.0F	7.4		--	--	6.8	--	0	32	--	5.1	--	.10	--	26	5A		
1200	5050	679	108	15.0C	7.0	89			.30 37		.00	.52		.14		--	--	8.6			
07/17/74	5050		9.1	69.8F	7.8	124	--	--	--	--	--	--	--	--	--	--	--			2AF	
1300		202	103	21.0C												--	--				
09/16/74	5050		10.0	76.7F	7.6	177	--	--	--	--	--	--	--	--	--	--	--			1AF	
1245		140	114	21.5C												--	--				
A0 4520.50 ANTELOPE CREEK NEAR MOUTH NEAR RED BLUFF																					
10/10/73	5050		12.5	59.0F	8.2	237	--	--	19	--	0	89	--	20	--	.50	--	72	1A		
1140	5050		124	15.0C	7.4	236			.83 37		.00	1.46		.56		--	--	1.0			
02/13/74	5050		12.7	46.4F	7.1	142	--	--	--	--	--	--	--	--	--	--	--			2AF	
1300	5050		108	8.0C												--	--				
A0 5103.00 FEATHER RIVER AT NICOLAUS																					
10/17/73	5050	24.12	10.1	68 F	7.2	75	--	--	--	--	--	--	--	--	--	--	--			3A	
0750	5050	5340	110	20 C		74										--	--				
11/14/73	5050	34.85	9.6	53 F	7.1	98	--	--	--	--	--	--	--	--	--	--	--			16A	
0900	5050	25800	88	12 C												--	--				
12/19/73	5050		11.0	48 F	7.2	86	--	--	--	--	--	--	--	--	--	--	--			9A	
0815	5050	14000	95	9 C		82										--	--				
01/16/74	5050	39.67	11.0	48 F	7.1	80	--	--	--	--	--	--	--	--	--	--	--	20A			
0700	5050	50400	95	9 C		78										--	--				
02/20/74	5050	29.65	12.2	47.5F	7.2	85	--	--	--	--	--	--	--	--	--	--	--	19A			
1200	5050	15820	104	8.6C		81										--	--				
03/20/74	5050	35.06	11.9	52 F	7.2	74	--	--	--	--	--	--	--	--	--	--	--	47	10A		
0845	5050	20700	108	11 C		76										--</					

DATE TIME	SAMPLER LAB	G.M. DEPTH	OO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					
							CA	MG	NA	K	CO3	NO3	504	CL	PERCENT REACTANCE VALUE	NO3	8	F 5102	TDS SUM	TH NCH	TURB SAR		
		A0	6550.00	BEAR RIVER NEAR WHEATLAND										CONTINUED									
01/07/74 0820	5050 5050	8.32 2170	12.1 102	46 8	F C	7.2 7.3	76 72	6.3 .31 44	3.2 .26 37	3.0 .13 19	-- 0 .00	0 .49	30 .49	-- 2.8 .08	-- -- --	-- -- --	30	29	10A 0.2				
02/05/74 0845	5050 5050	7.25 978	11.8 100	47 8	F C	7.2 7.5	72 69	5.6 .28 38	3.4 .28 38	3.4 .15 21	.9 .02 3	0 .00	31 .51 73	5.9 .12 17	2.6 .07 10	.1 .00	.00 -- --	33 37	28 3	7A 0.3			
03/04/74 0920	5050 5050	9.19 2900	12.5 106	47 8	F C	7.2 7.7	66 68	6.6 .33 49	2.6 .21 31	2.9 .13 19	-- 0 .00	0 .46	28 .46	-- 2.4 .07	-- -- --	-- -- --	-- -- --	27 4	25A 0.2				
04/03/74 0900	5050 5050	10.48 2080	12.7 114	51 11	F C	7.2 7.9	69 69	5.5 .27 35	4.4 .36 47	3.2 .14 18	-- 0 .00	0 .48	29 .48	-- 3.4 .10	-- -- --	-- -- --	32 8	32 8	22A 0.2				
05/08/74 0800	5050 5050	4.68 247	9.4 105	70 21	F C	7.2 7.2	75 76	6.6 .33 44	3.3 .27 36	3.5 .15 20	-- 0 .00	0 .52	32 .52	-- 3.4 .10	-- -- --	-- -- --	-- -- --	30 4	2A 0.3				
06/07/74 0930	5050 5050	4.95 96	8.7 98	71 22	F C	7.4 7.9	83 83	7.3 .36 44	3.3 .27 37	4.2 .18 22	-- 0 .00	0 .56	34 .56	-- 4.7 .13	-- -- --	-- -- --	48 4	32 4	2A 0.3				
07/01/74 0845	5050 5050	4.40 27	7.8 92	75 24	F C	7.4 7.9	120 122	11 .55 44	6.4 .53 43	3.6 .16 13	-- 0 .00	0 .84	51 .84	-- 4.3 .12	-- -- --	-- -- --	90 12	54 12	2A 0.2				
08/02/74 0950	5050 5050	4.28 19	8.0 102	83 28	F C	7.5 8.0	141 142	12 .60 40	8.3 .68 45	5.0 .22 15	-- 0 .00	0 1.13	69 1.13	-- 4.5 .13	-- -- --	-- -- --	75 8	64 8	0A 0.3				
09/03/74 1515	5050 5050	4.65 27	9.4 120	83 28	F C	8.2 8.0	128 137	12 .60 44	6.8 .56 41	4.8 .21 15	-- 0 .00	0 1.05	64 1.05	-- 3.1 .09	-- -- --	-- -- --	93 8	58 8	0A 0.3				
		A0	7140.10	AMERICAN RIVER AT SACRAMENTO WATER PLANT																			
03/13/74 0830	5050 5050		12.7 108	47 8	F C	7.2 8.1	62 59	6.9 .34 58	1.7 .14 24	2.2 .10 17	.5 .01 2	0 .00	29 .48 84	2.5 .05 9	1.2 .03 5	.4 .01 2	.00 -- --	44 30	25 0	6A 0.2			
08/19/74 0945	2163 5050		8.8 91	63 17	F C	7.1 7.2	46 46	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	1A				
		A0	7180.00	AMERICAN RIVER BELOW NIMBUS DAM																			
08/19/74 0845	2163 5050		8.0 83	63 17	F C	7.0 7.0	53 49	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	-- -- --	1B				
		A1	1020.00	PIT RIVER NEAR MONTGOMERY CREEK																			
11/14/73 1100	5050 5050		13.9 126	49.1F 9.5C	7.4 7.5	100 102	10 .50 46	4.1 .34 31	4.9 .21 19	1.0 .03 3	0 .00	56 .92 89	3.4 .07 7	1.0 .03 3	.6 .01 1	.00 -- --	72 53	42 0	68A 0.3				
03/14/74 1000	5050 5050		14.0 119	44.6F 7.0C	8.3	118	--																



TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER						
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NM	TURB SAR	
A1		1680.00	PIT RIVER NEAR CANBY				CONTINUED													
06/06/74 0650	5050	3.92 159	7.4 84	58.1F 14.5C	7.6 221	--	--	--	--	--	--	--	--	--	--	--			16AF	
07/17/74 1205	5050	2.81 125	10.6 137	69.8F 21.0C	8.1 195	--	--	--	--	--	--	--	--	--	--	--			25AF	
08/15/74 0645	5050	2.49 40	6.7 78	60.8F 16.0C	7.8 267	--	--	--	--	--	--	--	--	--	--	--			15AF	
09/12/74 0725	5050	2.68 92	7.2 83	59.0F 15.0C	8.0 263	--	--	--	--	--	--	--	--	--	--	--			23AF	
A1		4400.00	PIT RIVER, SOUTH FORK, NEAR LIKELY																	
10/16/73 0740	5050 5050	1.95 22	12.5 120	44.6F 7.0C	7.5 118 7.5 116	--	--	7.0 .30 25	--	0 .00	73 1.20	--	.0 .00	--	.00	--		44	13A 0.5	
06/06/74 0845	5050	3.62 290	9.5 98	50.0F 10.0C	7.8 77	--	--	--	--	--	--	--	--	--	--	--			7AF	
A2		1010.00	SACRAMENTO RIVER AT KESWICK																	
10/11/73 1005	5050 5050	11.4 7500	50.9F 10.5C	7.2 109	--	--	--	--	--	--	--	--	--	--	--	--			2AF	
11/12/73 1100	5050 5050	10.5 20000	53.6F 12.0C	7.0 105 7.4 106	7.9 .39 36	5.5 .45 41	5.4 .23 21	.8 .02 2	0 .00	57 .93 85	3.8 .08 7	2.0 .06 6	1.4 .02 2	.00	--	80 55	42 0	55A 0.4		
12/06/73 1100	5050 5050	16.2 39000	56.0F 10.0C	7.2 98	--	--	--	--	--	--	--	--	--	--	--	--			10AF	
01/04/74 1105	5050 5050	12.0 21000	46.4F 8.0C	8.0 103	--	--	--	--	--	--	--	--	--	--	--	--			5AF	
02/14/74 1015	5050 5050	12.4 17500	44.6F 7.0C	7.1 79 7.6 78	--	--	3.4 .15 19	-- .00	0 .64	39 .64	-- .03	.9 .03	--	.10	--	32	70A 0.3			
03/18/74 1200	5050 5050	14.9 30000	46.4F 8.0C	7.1 93	--	--	--	--	--	--	--	--	--	--	--	--			24AF	
04/18/74 1025	5050 5050	13.2 25000	46.4F 8.0C	7.1 94	--	--	4.2 .18 20	-- .00	0 .77	47 .77	-- .03	.9 .03	--	.00	--	37	21A 0.3			
05/21/74 1300	5050 5050	10.5 12000	50.0F 10.0C	7.1 88	--	--	--	--	--	--	--	--	--	--	--	--			16AF	
06/24/74 1020	5050	12.6 12500	50.0F 10.0C	7.1 106	--	--	--	--	--	--	--	--	--	--	--	--			13AF	
07/16/74 1150	5050	10.7 12000	50.0F 10.0C	7.2 90	--	--	--	--	--	--	--	--	--	--	--	--			10AF	
08/21/74 0845	5050 5050	10.4 13500	50.0F 10.0C	7.1 92 7.3 92	--	--	4.6 .20 21	-- .00	0 .79	48 .79	-- .05	1.9 .05	--	.00	--	38	9A 0.3			
09/23/74 1120	5050	10.0 8000	51.8F 11.0C	7.2 90	--	--	--	--	--	--	--	--	--	--	--	--			6AF	
A2		1300.00	SACRAMENTO RIVER AT DELTA																	
11/14/73 1400	5050 5050	9.18 6160	13.5 121	48.2F 9.0C	7.2 64 7.2 67	3.8 .19 27	5.0 .41 58	2.2 .10 14	.2 .01 1	0 .00	38 .62 90	1.0 .02 3	1.3 .04 6	.4 .01 1	.10	--	40 33	30 0	29A 0.2	
01/14/74 0915	5050 5050	8.97 4350	12.6 110	46.4F 8.0C	7.1 68	--	--	--	--	--	--	--	--	--	--	--			18AF	
03/14/74 1330	5050 5050	8.24 3150	12.6 111	47.3F 8.5C	7.4 75	--	--	--	--	--	--	--	--	--	--	--			10AF	
05/07/74 0830	5050	8.22 3120	12.0 107	48.2F 9.0C	7.4 71	--	--	--	--	--	--	--	--	--	--	--			15AF	
07/16/74 0850	5050	5.28 512	10.4 111	62.6F 17.0C	7.6 113	--	--	--	--	--	--	--	--	--	--	--			2AF	
09/12/74 1340	5050	4.51 262	10.0 108	63.5F 17.5C	8.2 140	--	--	--	--	--	--	--	--	--	--	--			1AF	

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	OO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	8	F	TOS SUM	TH NCH	TURB SAR						
A2 2150.00 MCLOUD RIVER ABOVE SHASTA LAKE																									
11/14/73 1300	5050 5050	5520	14.0 125	48.2F 9.0C	7.8 7.2	70 72	9.6 .48 61	2.2 .18 23	2.2 .10 13	1.0 .03	0 .00	41 .67 93	2.0 .04 6	.5 .01 1	.1 .00	.00	--	48 38	33 0	16A 0.2					
01/14/74 0810	5050 5050	2080	12.4 106	44.6F 7.0C	7.1	83	--	--	--	--	--	--	--	--	--	--	--			3AF					
03/14/74 1210	5050 5050	2530	12.7 111	46.4F 8.0C	7.6	80	--	--	--	--	--	--	--	--	--	--	--			7AF					
09/12/74 1225	5050	336	10.5 105	57.2F 14.0C	7.6	105	--	--	--	--	--	--	--	--	--	--	--			1AF					
A3 1110.00 STONY CREEK BELOW BLACK BUTTE DAM																									
10/10/73 1000	5050 5050	2.62 50		60.8F 16.0C		398	--	--	--	--	--	--	--	--	--	--	--			28AF					
11/19/73 1145	5050 5050	2.72 59	14.0 128	51.8F 11.0C	8.4	350	--	--	--	--	--	--	--	--	--	--	--			43AF					
01/09/74 1240	5050 5050	2.54 46	13.5 107	41.0F 5.0C	7.8	273	--	--	--	--	--	--	--	--	--	--	--			31AF					
03/19/74 1240	5050 5050	1.79 7.1	11.6 115	58.1F 14.5C	7.9 8.1	286 288	29 1.45 48	12 .99 33	12 .52 17	1.0 .03 1	0 .00	134 2.20 74	19 .40 13	12 .34 11	2.2 .04 1	.10	--	163 153	124 12	60A 0.5					
05/20/74 1125	5050 5050	4.22 381	10.2 104	60.8F 16.0C	8.1 7.6	261	--	--	10 .44 16	--	0 .00	129 2.11	--	8.2 .23	--	.10	--		114	13A 0.4					
07/18/74 1230	5050	4.15 357	9.2 108	73.4F 23.0C	7.9	301	--	--	--	--	--	--	--	--	--	--	--			41AF					
09/24/74 1050	5050	3.17 117	10.0 117	73.4F 23.0C	8.1	354	--	--	--	--	--	--	--	--	--	--	--			34AF					
A3 1250.00 STONY CREEK NEAR FRUTO																									
10/10/73 0910	5050 5050		13.2 127	55.4F 13.0C	8.0 8.2	448 463	--	--	19 .83 17	--	0 .00	222 3.64	--	18 .51	--	.20	--		203	36A 0.6					
11/19/73 1040	5050 5050		14.3 120	44.6F 7.0C	7.6 8.2	209 213	24 1.20 57	6.1 .50 24	9.1 .40 19	.8 .02 1	0 .00	80 1.31 63	19 .40 19	13 .37 18	--	.10	--	129 111	85 20	35A 0.4					
12/14/73 1120	5050 5050		13.2 113	46.4F 8.0C	8.3	198	--	--	--	--	--	--	--	--	--	--	--			31AF					
01/09/74 1140	5050 5050		14.4 109	37.4F 3.0C	7.8	249	--	--	--	--	--	--	--	--	--	--	--			12AF					
02/13/74 0955	5050 5050		13.2 108	42.8F 6.0C	7.8	290	--	--	--	--	--	--	--	--	--	--	--			50AF					
03/19/74 1040	5050 5050		12.7 114	50.0F 10.0C	7.9	256	--	--	--	--	--	--	--	--	--	--	--			63AF					
04/22/74 1110	5050 5050		10.6 108	59.9F 15.5C	8.0 8.0	285	--	--	10 .44 15	--	0 .00	129 2.11	--	7.6 .21	--	.10	--		122	32A 0.4					
05/20/74 1040	5050 5050		9.5 97	59.9F 15.5C	8.0	283	--	--	--	--	--	--	--	--	--	--	--			26AF					
06/25/74 1150	5050		10.8 132	77.0F 25.0C	8.3	382	--	--	--	--	--	--	--	--	--	--	--			3AF					
07/18/74 1125	5050		9.2 108	72.5F 22.5C	8.1	297	--	--	--	--	--	--	--	--	--	--	--			28AF					
08/20/74 1015	5050		8.8 104	73.4F 23.0C	8.1	333	--	--	--	--	--	--	--	--	--	--	--			40AF					
09/24/74 1000	5050		9.0 104	71.6F 22.0C	8.1	361	--	--	--	--	--	--	--	--	--	--	--			57AF					
A3 1302.00 GRINDSTONE CREEK NEAR ELK CREEK																									
11/19/73 1015	5050 5050		14.6 119	42.8F 6.0C	7.4 8.2	174 176	24 1.20 68	3.4 .28 16	6.0 .26 15	.8 .02 1	0 .00	69 1.13 66	20 .42 25	5.7 .16 9	--	.00	--	106 94	74 18	29A 0.3					
01/09/74 1115	5050 5050	200E	14.8 109	35.6F 2.0C	7.6	225	--	--	--	--	--	--	--	--	--	--	--			12AF					
03/19/74 1145	5050 5050		12.1 109	50.0F 10.0C	7.9 7.9	216 217	--	--	6.0 .26 12	--	0 .00	95 1.56	--	4.4 .12	--	.00	--		92	120A 0.3					

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				TDS SUM	TH NCH	TURB SAR
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	B	F	SI02			
CONTINUED																				
A3		1302.00	GRINDSTONE CREEK NEAR ELK CREEK																	
05/20/74	5050		9.7	57.2F	8.0			8.9		0	109		4.8		.10				115	7A
1030	5050	100E	96	14.0C	7.7	259	--	.39	--	.00	1.79	--	.14	--	--	--	--	--	0.4	
								14												
07/18/74	5050		8.8	81.5F	8.3	364	--	--	--	--	--	--	--	--	--	--	--			1AF
1100		30E	113	27.5C																
09/24/74	5050		9.2	66.0F	8.0	479	--	--	--	--	--	--	--	--	--	--	--			1AF
0945		4E	103	20.0C																
A3		2120.00	THOMES CREEK AT PASKENTA																	
10/10/73	5050	2.90	12.5	55.4F	8.0	413	--	--	--	--	--	--	--	--	--	--	--			1AF
0020	5050	19	121	13.0C																
11/19/73	5050	5.17	15.0	41.0F	7.5	128	17	3.5	3.4	.8	0	61	9.4	1.9	--	.00	--	79	57	31A
0925	5050	665	120	5.0C	8.1	128	.85	.29	.15	.02	.00	1.00	.20	.05	--	--	--	66	7	0.2
							65	22	11	2		80	16	4						
12/14/73	5050	5.40	13.3	43.7F	7.8	135	--	--	--	--	--	--	--	--	--	--	--			20AF
1000	5050	750	111	6.5C																
01/09/74	5050	4.64	14.6	35.6F	7.6	108	--	--	--	--	--	--	--	--	--	--	--			9AF
1020	5050	380	108	2.0C																
02/13/74	5050	4.65	13.8	39.2F	8.0	237	--	--	--	--	--	--	--	--	--	--	--			42AF
0845	5050	275	107	4.0C																
03/19/74	5050	5.43	13.3	45.5F	7.7	159	--	--	--	--	--	--	--	--	--	--	--			124AF
0915	5050	736	113	7.5C																
04/22/74	5050	5.27	11.4	52.7F	7.8	171	--	--	--	--	--	--	--	--	--	--	--			56AF
0945	5050	488	107	11.5C																
05/20/74	5050	4.43	10.2	51.8F	8.1	195	--	--	--	--	--	--	--	--	--	--	--			11AF
0930	5050	262	94	11.0C																
06/25/74	5050	3.63		74.3F		325	--	--	--	--	--	--	--	--	--	--	--			52AF
1030		80		23.5C																
07/18/74	5050	3.79	9.6	73.4F	7.9	333	--	--	--	--	--	--	--	--	--	--	--			25AF
0940		40	114	23.0C																
08/20/74	5050		10.1	68.9F	8.2	354	--	--	11	--	0	138	--	14	--	.10	--			0A
0900	5050	11	114	20.5C	8.2	369			.48	.00	2.26		.39		--	--	--	160		0.4
								13												
09/24/74	5050	3.38	12.1	71.6F	8.1	364	--	--	--	--	--	--	--	--	--	--	--			20AF
0900		4.0	141	22.0C																
A3		3110.00	ELDER CREEK NEAR PASKENTA																	
10/10/73	5050	1.20	12.7	51.8F	8.1	673	--	--	49	--	0	240	--	95	--	.10	--			0A
0745	5050	7.1	118	11.0C	8.1	684			2.13	.00	3.93		2.68		--	--	--	232		1.4
								31												
04/22/74	5050	2.34	11.3	53.6F	8.0	282	22	19	6.9	.7	0	155	5.4	6.9	.0	.00	--	157	134	6A
0845	5050	174	107	12.0C	8.1	280	1.10	1.56	.30	.02	.00	2.54	.11	.19	.00	--	--	137	6	0.3
							37	52	10	1		89	4	7						
09/24/74	5050	1.10	9.5	60.8F	8.0	770	--	--	--	--	--	--	--	--	--	--	--			1AF
0815		4.0	98	16.0C																
A3		6130.00	CLEAR CREEK NEAR IGO																	
10/23/73	5050		12.5	53.6F	7.3	150	--	--	--	--	--	--	--	--	--	--	--			
1210		86	118	12.0C																
04/18/74	5050	2.80	12.0	50.0F	7.3		--	--	3.9	--	0	36	--	1.4	--	.00	--			15A
0930	5050	124	108	10.0C	7.5	71			.17	.00	.59		.04		--	--	--	26		0.3
								25												
09/23/74	5050	2.36	10.5	59.0F	7.6	81	--	--	--	--	--	--	--	--	--	--	--			4AF
1045		48	106	15.0C																
A4		1110.00	BUTTE CREEK NEAR CHICO																	
11/13/73	5050	4.11	13.4	44.1F	7.2	55	6.4	2.2	2.2	.6	0	32	.6	.9	.2	.00	--	50	25	20A
0905	5050	1800	114	9.5C	7.7	59	.32	.18	.10	.02	.00	.52	.01	.03	.00	--	--	29	0	0.2
							52	29	16	3		93	2	5						
01/16/74	5050	7.35	13.1	48.2F	7.1	52	--	--	2.2	--	0	31	--	.0	--	.00	--			70A
1300	5050	6030	114	9.0C	6.8	52			.10	.00	.51		.00		--	--	--	22		0.2
								19												
03/12/74	5050	3.96	12.6	46.4F	7.4	66	--	--	--	--	--	--	--	--	--	--	--			6AF
1020	5050	1860	107	8.0C																
05/06/74	5050	2.39	11.3	53.6F	7.4		--	--	2.5	--	0	36	--	.0	--	.00	--			1A
0950	5050	633	106	12.0C	7.3	64			.11	.00	.59		.00		--	--	--	27		0.2
								17												

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	PERCENT HCO3	PERCENT SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB SAR	
. . . . .																				
A4		1110.00	BUTTE CREEK NEAR CHICO										CONTINUED							
07/17/74 1040	5050	1.43 198	9.8 102	62.6F 17.0C	7.6	97	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
09/16/74 0930	5050	1.23 165	10.4 102	57.2F 14.0C	7.6	105	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
A4		2110.00	BIG CHICO CREEK NEAR CHICO																	
11/13/73 0820	5050 5050	5.18 1010	13.6 121	50.0F 10.0C	7.3 7.7	63 66	6.2 .31 43	2.8 .23 32	3.5 .15 21	1.0 .03 4	0 .00	36 .59 82	2.1 .04 6	3.3 .09 13	.1 .00	.00 --	59 37	27 0	5A 0.3	
01/16/74 1220	5050 5050	9.55 3640	13.5 120	50.0F 10.0C	7.1 6.7	58 58	-- --	-- --	2.5 .11 20	-- --	0 .00	33 .54	-- --	.4 .01	-- --	.00 --	-- --	22 --	32A 0.2	
03/12/74 0930	5050 5050	5.41 1330	13.2 114	47.3F 8.5C	7.3	68	--	--	--	--	--	--	--	--	--	--	--	--	3AF	
05/06/74 0850	5050 5050	2.31 103	11.0 109	58.1F 14.5C	7.6 7.6	134	-- --	-- --	6.8 .30 22	-- --	0 .00	71 1.16	-- --	3.9 .11	-- --	.00 --	-- --	54 --	1A 0.4	
07/17/74 0955	5050	2.03 67	9.3 102	67.1F 19.5C	8.0	190	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
09/16/74 1010	5050	1.58 31	10.0 106	64.4F 18.0C	7.8	204	--	--	--	--	--	--	--	--	--	--	--	--	0AF	
A4		5110.50	ANTELOPE CREEK NEAR RED BLUFF																	
10/10/73 1210	5050 5050	-- 47	13.2 133	59.9F 15.5C	8.0 7.7	158 157	-- --	-- 11 .48 29	-- --	0 .00	85 1.39	-- --	6.9 .19	-- --	.10 --	-- --	59 --	0A 0.6		
02/13/74 1330	5050 5050	-- 161	12.9 110	46.4F 8.0C	7.6	95	--	--	--	--	--	--	--	--	--	--	--	--	2AF	
A4		6050.01	PAYNES CREEK NEAR RED BLUFF																	
10/10/73 1245	5050 5050	-- 30E	-- --	60.8F 16.0C	--	253	--	--	--	--	--	--	--	--	--	--	--	--	2AF	
12/14/73 1405	5050 5050	-- 200E	-- --	49.1F 9.5C	--	105	--	--	--	--	--	--	--	--	--	--	--	--	5AF	
03/12/74 1315	5050 5050	-- 350E	11.4 105	51.8F 11.0C	7.3 8.2	81 81	6.0 .30 36	4.0 .33 40	4.4 .19 23	.5 .01 1	0 .00	46 .75 86	1.3 .03 3	2.7 .08 9	.6 .01 1	.00 --	73 42	31 0	9A 0.3	
07/18/74 0800	5050	-- 50E	9.2 98	63.5F 17.5C	7.2	178	--	--	--	--	--	--	--	--	--	--	--	--	2AF	
A4		7110.00	BATTLE CREEK NEAR COTTONWOOD																	
10/11/73 0850	5050 5050	1.78 281	12.9 117	51.8F 11.0C	7.4 7.7	148 146	-- --	-- 10 .44 28	-- --	0 .00	90 1.48	-- --	2.0 .06	-- --	.00 --	-- --	56 --	1A 0.6		
02/14/74 0845	5050 5050	2.18 604	12.7 106	45.5F 7.5C	7.4	115	--	--	--	--	--	--	--	--	--	--	--	--	3AF	
A4		8110.00	COW CREEK NEAR MILLVILLE																	
05/21/74 1410	5050 5050	3.32 455	9.4 98	62.6F 17.0C	7.4 7.1	103	-- --	4.9 .21 20	-- --	0 .00	55 .90	-- --	2.3 .06	-- --	.00 --	-- --	42 --	2A 0.3		
09/23/74 1305	5050	-- 63	10.7 127	74.3F 23.5C	8.2	167	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
AS L 010.7 105.1					LAKE ALMANOR AT INTAKE TOWER NEAR OAM															
10/16/73 1300	5050 5050	-- --	-- --	-- --	7.3	99	--	--	--	--	0 .00	60 .98	--	--	--	--	36	1A		
COM																				
AS L 014.3 106.5					LAKE ALMANOR, EAST ARM, CENTER															
10/16/73 1420	5050 5050	-- --	7.7 89	58.7F 14.8C	7.7 7.4	97 99	-- --	-- --	-- --	-- --	0 .00	60 .98	-- --	-- --	-- --	-- --	37	1A		
10/16/73 1430	5050 5050	-- --	7.7 88	57.6F 14.2C	7.4 7.2	100	--	--	--	--	0 .00	61 1.00	--	--	--	--	36	1A		
10/16/73 1440	5050 5050	-- --	6.8 77	57.3F 14.0C	7.3 7.3	97 100	-- --	-- --	-- --	-- --	0 .00	62 1.02	--	--	--	--	37	1A		
40																				

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER										MILLIGRAMS PER LITER					TDS SUM	TH NCH	TURB SAR
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	B S102	F							
AS L 015.5 111.1 LAKE ALMANOR, WEST ARM, CENTER																							
10/16/73	5050		8.2	56.4F	7.6	95	--	--	--	--	0	61	--	--	--	--	--				40	1A	
1000	5050		92	13.5C	7.4	98	--	--	--	--	.00	1.00	--	--	--	--	--						
2																							
10/16/73	5050		8.2	56.3F	7.7		--	--	--	--	0	61	--	--	--	--	--				41	1A	
1030	5050		92	13.5C	7.3	99	--	--	--	--	.00	1.00	--	--	--	--	--						
15																							
10/16/73	5050		8.0	55.7F	7.6	96	--	--	--	--	0	60	--	--	--	--	--				41	1A	
1050	5050		89	13.2C	7.4	99	--	--	--	--	.00	.98	--	--	--	--	--						
28																							
AS L 017.6 112.0 LAKE ALMANOR NEAR MUD CREEK MOUTH																							
10/16/73	5050		8.7	55.9F	7.7	94	--	--	--	--	0	60	--	--	--	--	--				39	1A	
0910	5050		97	13.3C	7.5	98	--	--	--	--	.00	.98	--	--	--	--	--						
5																							
A6 1265.00 SQUIRREL CREEK NEAR PENN VALLEY																							
10/04/73	5050	6.00	10.8	54 F	7.3	95	--	--	--	--	--	--	--	--	--	--	--						
1210		9.2	105	12 C			--	--	--	--	--	--	--	--	--	--	--						
11/18/73	5050	7.80	10.3	55 F	7.3	115	--	--	--	--	--	--	--	--	--	--	--						
1230		218	101	13 C			--	--	--	--	--	--	--	--	--	--	--						
12/05/73	5050	6.44	11.0	48 F	7.2	132	11	7.2	4.9	--	0	67	--	4.4	--	--	--			92	57	34	
1300	5050	34	99	9 C	7.6	134	.55	.59	.21		.00	1.10	--	.12	--	--	--			2	0.3	0.3	
							41	44	16														
01/07/74	5050	7.33	11.6	39 F	7.1	93	--	--	--	--	--	--	--	--	--	--	--						
1045		135	92	4 C			--	--	--	--	--	--	--	--	--	--	--						
02/05/74	5050	6.26	12.4	42 F	7.2	140	--	--	--	--	--	--	--	--	--	--	--						
1045		21	103	6 C			--	--	--	--	--	--	--	--	--	--	--						
03/04/74	5050	6.07	11.6	48 F	7.1	118	10	5.4	3.9	.4	0	56	2.6	1.4	1.8	.10	--			95	47	11A	
1315	5050	74	104	9 C	7.6	110	.50	.44	.17	.01	.00	.92	.05	.04	.03		--			53	1	0.2	
							45	39	15	1		88	5	4	3								
04/03/74	5050	7.98	11.3	51 F	7.2	107	--	--	--	--	--	--	--	--	--	--	--						
1130		254	106	11 C			--	--	--	--	--	--	--	--	--	--	--						
05/08/74	5050	6.04	10.2	65 F	7.3	142	--	--	--	--	--	--	--	--	--	--	--						
1115		10	113	18 C			--	--	--	--	--	--	--	--	--	--	--						
06/07/74	5050	6.02	8.6	68 F	7.5	144	11	8.9	6.0	--	0	78	--	4.7	--	--	--			100	64	6A	
1230	5050	10	98	20 C	8.2	151	.55	.73	.26		.00	1.28	--	.13	--	--	--			0	0.3	0.3	
							36	47	17														
07/01/74	5050	6.02	7.8	70 F	7.3	122	--	--	--	--	--	--	--	--	--	--	--						
1100		10	91	21 C			--	--	--	--	--	--	--	--	--	--	--						
08/02/74	5050	6.10	7.9	74 F	7.5	98	--	--	--	--	--	--	--	--	--	--	--						
1245		13	96	23 C			--	--	--	--	--	--	--	--	--	--	--						
09/03/74	5050	6.06	8.8	67 F	7.4	89	8.5	3.6	4.2	--	0	44	--	2.2	--	--	--			60	36	2A	
1330	5050	11	100	19 C	7.8	91	.42	.30	.18		.00	.72	--	.06	--	--	--			0	0.3	0.3	
							47	33	20														
AB L 902.7 254.7 1 CLEAR LAKE AT LAKEPORT																							
10/04/73	5050		9.5	64.4F	8.0	274	--	--	--	--	--	--	--	--	--	--	--					17AF	
0810	5050		104	16.0C			--	--	--	--	--	--	--	--	--	--	--						
11/16/73	5050		9.2	54.5F	7.4	221	--	--	--	--	--	--	--	--	--	--	--					35AF	
1030	5050		90	12.5C			--	--	--	--	--	--	--	--	--	--	--						
12/13/73	5050		10.0	50.0F	7.9	237	--	--	--	--	--	--	--	--	--	--	--					22AF	
0930	5050		92	16.0C			--	--	--	--	--	--	--	--	--	--	--						
01/24/74	5050		10.4	46.4F	8.0	198	--	--	--	--	--	--	--	--	--	--	--					40AF	
0810	5050		92	8.0C			--	--	--	--	--	--	--	--	--	--	--						
02/07/74	5050		10.5	44.6F	7.3	201	--	--	--	--	--	--	--	--	--	--	--					39AF	
0825	5050		90	7.0C			--	--	--	--	--	--	--	--	--	--	--						
03/07/74	5050		10.7	47.3F	7.4	201	17	11	8.0	1.4	0	110	5.3	3.6	2.9	.50	--			115	89	24A	
0800	5050		95	8.5C	8.0	204	.85	.90	.35	.04	.00	1.80	.11	.10	.05		--			104	0	0.4	
							40	42	16	2		87	5	5	2								
04/04/74	5050		10.3	51.8F	7.5		--	--	7.6	--	0	109	--	3.7	--	.40	--				90	21A	
0650	5050		97	11.0C	8.0	202			.33	.00	1.79	--	.10	--	--	--					0.3	0.3	
									15														
05/16/74	5050		8.5	60.8F	7.4	206	--	--	--	--	--	--	--	--	--	--	--					15AF	
1055	5050		90	16.0C			--	--	--	--	--	--	--	--	--	--	--						
06/13/74	5050		7.3	69.8F	7.8	211	--	--	--	--	--	--	--	--	--	--	--						
0725			85	21.0C			--	--	--	--	--	--	--	--	--	--	--						
07/11/74	5050		6.7	70.7F	7.6	222	--	--	--	--	--	--	--	--	--	--	--						
1030			79	21.5C			--	--	--	--	--	--	--	--	--	--	--						

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER										
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR												
AB L 902.7 254.7 1 CLEAR LAKE AT LAKEPORT											CONTINUED																				
08/08/74 0800	5050			77.0F 25.0C	7.4 221	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
09/06/74 1105	5050		7.6 95	77.0F 25.0C	8.2 239	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
AB 1120.00 CACHE CREEK NEAR CAPAY																															
10/03/73 1250	5050	2.04 77	10.6 114	66 19	F C	8.1 380	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
11/12/73 1520	5050 5050	7.40 3790	10.3 100	57 14	F C	8.0 245 8.0 272	17 .85 29	16 1.35 47	16 .70 24	--	0 .00	121 1.98	-- .45	--	--	--	.60	--	159	110 11	250A 0.7										
12/12/73 0930	5050 5050	4.71 1050	11.0 97	49 9	F C	8.1 425 8.0 451	24 1.20 26	28 2.36 52	23 1.00 22	--	0 .00	204 3.34	-- .71	--	--	--	.80	--	226	178 11	125A 0.8										
01/22/74 1415	5050 5050	8.55 5110	11.9 102	47 8	F C	8.0 300 8.0 337	22 1.10 33	19 1.56 47	14 .61 16	1.6 .04 1	0 .00	164 2.69 83	15 .31 10	8.6 .24 7	1.5 .02 1	--	.80	--	164 163	133 0	150A 0.5										
02/19/74 1530	5050 5050	5.63 1380	11.1 96	48 9	F C	8.2 560 8.1 631	32 1.60 24	41 3.38 51	37 1.61 24	--	0 .00	284 4.65	-- 1.13	--	--	--	1.50	--	330	249 17	90A 1.0										
03/05/74 1045	5050	8.32 4830	11.6 103	50 10	F C	8.0 285	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
04/02/74 0830	5050 5050	10.28 7610	10.7 98	52 11	F C	8.0 241 8.0 247	19 .95 36	14 1.21 46	11 .48 18	--	0 .00	127 2.08	-- .19	--	--	--	.40	--	118	108 4	360A 0.5										
05/10/74 1400	5050	4.14 758	8.2 95	73 23	F C	9.5 409	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
06/13/74 1000	5050	3.94 653	8.4 100	76 24	F C	8.0 330	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
07/11/74 0930	5050 5050	3.51 425	8.2 92	70 21	F C	8.1 350 7.5 376	24 1.20 32	20 1.70 45	20 .87 23	--	0 .00	176 2.88	-- .54	--	--	--	1.00	--	199	145 1	3A 0.7										
08/08/74 0830	5050	3.69 506	6.9 83	76 24	F C	8.0 285	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
09/04/74 0845	5050 5050	3.29 286	8.3 95	72 22	F C	8.0 308 7.9 321	24 1.20 35	18 1.48 43	17 .74 22	--	0 .00	170 2.79	-- .39	--	--	--	--	--	214	132 0	3A 0.6										
AB 1250.00 BEAR CREEK NEAR RUMSEY																															
10/04/73 1045	5050 5050		13.3 138	60.8F 16.0C	8.3 5190 8.6 5240	--	--	938 40.80 77	--	98 3.27	884 14.49	-- 34.69	1230 .19	12.0	27.0	--	--	--	623	8A 16.4											
11/19/73 1430	5050 5050		10.8 104	54.5F 12.5C	8.2 388 8.2 416	7.6 .38 9	26 2.14 52	35 1.52 37	2.4 .06 1	0 .00	157 2.57 65	6.1 .13 3	44 1.24 31	--	1.00	--	231	125 0	160A 1.4												
12/13/73 1310	5050 5050	2.85 181	12.5 114	50.0F 10.0C	8.3 1700 8.3 1720	--	--	200 8.70 52	--	0 .00	502 8.23	-- 8.49	301	--	7.10	--	--	--	410	30A 4.3											
01/24/74 1140	5050 5050	2.56 122	12.4 110	48.2F 9.0C	8.1 958	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	64F			
02/07/74 1150	5050 5050	2.07 53	13.4 113	44.6F 7.0C	8.4 1220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24F			
03/07/74 1015	5050 5050	2.49 110	11.2 101	49.1F 9.5C	8.4 1055	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	44F			
04/04/74 0935	5050 5050	2.56 122	11.6 108	51.8F 11.0C	8.2 979	--	--	72 3.13 29	--	0 .00	441 7.23	-- 2.09	74	--	2.00	--	--	383	4A 1.6												
05/16/74 1405	5050 5050	1.67 21	10.4 119	69.8F 21.0C	8.3 1900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14F			
06/13/74 1050	5050		8.5 105	77.0F 25.0C	8.3 2130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14F			
07/11/74 1315	5050		8.0 100	77.9F 25.5C	8.2 3050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14F			
08/08/74 1100	5050			78.8F 26.0C	8.2 2910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14F			
09/06/74 1345	5050 5050	1.11 2.0	6.4 83	81.5F 27.5C	8.4 3270 8.6 3310	--	--	561 24.40 49	--	63 2.10	710 11.64	-- 19.32	685	--	12.0	--	--	538	0A 10.5												

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	PERCENT HCO3	504	CL	VALUE NO3	8 F SI02	TDS SUM	TH NCH	TURB SAR		
A8 1350.00 CACHE CREEK NEAR LOWER LAKE																				
10/04/73 0910	5050 5050	1.94 115	10.6 114	62.6F 17.0C	7.6 288	--	--	--	--	--	--	--	--	--	--	--			6AF	
12/13/73 1050	5050 5050	3.70 530	12.3 111	48.2F 9.0C	7.4 242	--	--	--	--	--	--	--	--	--	--	--			20AF	
01/24/74 0940	5050 5050	6.75 3050	12.3 108	46.4F 8.0C	7.3 272	--	--	--	--	--	--	--	--	--	--	--			10AF	
02/07/74 1000	5050 5050	5.01 1220	12.7 110	45.5F 7.5C	7.3 272	22 1.10 38	15 1.23 43	11 .48 17	1.8 .05 2	0 .00	150 2.46 88	8.4 .17 6	5.2 .15 5	1.9 .03 1	1.00	-- 149 140	-- 119 0	7A 0.4		
04/04/74 0750	5050 5050	3560	11.4 108	51.8F 11.0C	7.4 8.0	240	--	--	9.2 .40 16	--	0 .00	132 2.16	--	6.1 .17	--	.80	--	107 0.4		
05/16/74 1200	5050 5050	3.37 435	9.9 106	62.6F 17.0C	7.8 245	--	--	--	--	--	--	--	--	--	--	--			11AF	
06/13/74 0850	5050	593	7.6 94	75.2F 24.0C	7.4 234	--	--	--	--	--	--	--	--	--	--	--			15AF	
07/11/74 1130	5050	375	7.7 90	76.7F 21.5C	7.4 243	--	--	--	--	--	--	--	--	--	--	--			8AF	
08/08/74 0930	5050 5050	3.65 513		80.6F 27.0C	8.0 7.7	228 236	--	--	9.6 .42 17	--	0 .00	131 2.15	--	5.8 .16	--	.70	--	104 0.4		
09/06/74 1205	5050	275	7.8 98	77.0F 25.0C	7.6 249	--	--	--	--	--	--	--	--	--	--	--			5AF	
A8 2050.00 CACHE CREEK, NORTH FORK, NEAR LOWER LAKE																				
10/04/73 1000	5050 5050	0.66 1.5	11.9 123	59.9F 15.5C	8.0 542	--	--	--	--	--	--	--	--	--	--	--			1AF	
11/16/73 1345	5050 5050	6.13 2180	10.9 107	55.4F 13.0C	7.8 150	12 .60 37	8.3 .68 42	6.7 .29 18	1.5 .04 2	0 .00	74 1.21 79	7.1 .15 10	5.2 .15 10	1.4 .02 1	.40	-- 110 79	-- 64 4	340A 0.4		
12/13/73 1200	5050 5050	4.26 860	12.1 111	56.0F 16.0C	7.8 205	--	--	--	--	--	--	--	--	--	--	--			110AF	
01/24/74 1050	5050 5050	4.11 785	11.8 107	49.1F 9.5C	7.6 245	--	--	--	--	--	--	--	--	--	--	--			55AF	
02/07/74 1100	5050 5050	2.60 288	12.7 108	44.6F 7.0C	7.8 323	--	--	--	--	--	--	--	--	--	--	--			4AF	
03/07/74 0915	5050 5050	3.83 735	12.2 106	46.4F 8.0C	8.0 229	--	--	--	--	--	--	--	--	--	--	--			47AF	
04/04/74 0845	5050 5050	4.46 1030	12.0 107	48.2F 9.0C	7.7 8.1	196	--	--	6.8 .30 15	--	0 .00	110 1.80	--	3.6 .10	--	.30	--	88 0.3		
05/16/74 1310	5050 5050	1.55 82	9.9 112	68.0F 26.0C	8.2 417	--	--	--	--	--	--	--	--	--	--	--			6AF	
06/13/74 0955	5050	1.09 33	9.8 117	73.4F 23.0C	8.1 461	--	--	--	--	--	--	--	--	--	--	--			3AF	
07/11/74 1230	5050	0.76 12	9.5 118	77.0F 25.0C	8.1 531	--	--	--	--	--	--	--	--	--	--	--			2AF	
08/08/74 1015	5050	0.68 8.8		79.7F 26.5C	8.0 528	--	--	--	--	--	--	--	--	--	--	--			1AF	
09/06/74 1300	5050 5050	0.42 1.4	9.9 131	83.3F 28.5C	8.2 410 424	--	--	25 1.09 25	--	2.0 .07	187 3.06	--	28 .79	--	2.30	--	160 0.9	0A 0.9		
A9 1250.00 PUTAH CREEK NEAR WINTERS																				
10/12/73 1345	5050 5050	5.82 170	12.3 116	55 F 13 C	8.0 311	16 .80 23	27 2.24 65	9.4 .41 12	--	0 .00	171 2.80	--	5.4 .15	--	.10	--	160 12	152 12	2A 0.3	
11/12/73 1415	5050 5050	5.23 72	10.8 102	55 F 13 C	7.8 337	19 .95 27	23 1.97 56	14 .61 17	--	0 .00	156 2.56	--	11 .31	--	.20	--	169 18	146 18	10A 0.5	
12/12/73 1045	5050 5050	6.02 58	10.6 97	52 F 11 C	7.8 337	18 .90 25	27 2.26 63	10 .44 12	--	0 .00	178 2.92	--	7.6 .21	--	.20	--	185 12	158 12	4A 0.3	
01/22/74 1300	5050	12.40 3260	11.4 104	52 F 11 C	7.9 314	17 .85 24	27 2.22 63	10 .44 12	1.6 .04 1	0 .00	174 2.85	18 .37 11	5.7 .16 5	.4 .01	.10	-- 196 165	-- 153 11	4A 0.4		

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B SI02	F	TDS SUM	TH NCH	TURB SAR	
A9 1250.00 PUTAH CREEK NEAR WINTERS CONTINUED																				
02/06/74 0900	5050	8.67	11.8	50	F 8.0	310	16	27	10	--	0	174	--	5.4	--	--	174	153	4A	
	5050	894	105	10	C 8.1	327	.80 23	2.26 65	.44 13	.00	2.85	--	.15	--	--	--	11	0.4		
03/05/74 1200	5050	13.11	12.3	51	F 8.0	300	16	27	9.4	--	1.0	172	--	6.6	--	.20	190	151	4A	
	5050	4020	111	11	C 8.3	317	.80 23	2.22 65	.41 12	.03	2.82	--	.19	--	--	--	9	0.3		
04/16/74 0915	5050	8.99	10.2	59	F 8.2	300	16	26	8.7	--	0	167	--	5.2	--	.20	172	150	4A	
	5050	1020	101	15	C 8.2	308	.80 24	2.20 65	.38 11	.00	2.74	--	.15	--	--	--	13	0.3		
05/30/74 1045	5050	7.84	11.6	53	F 7.9	303	17	25	9.7	--	0	200	--	5.4	--	--	187	147	2A	
	5050	662	107	12	C 7.7	312	.85 25	2.09 62	.42 13	.00	3.28	--	.15	--	--	--	0	0.3		
06/13/74 1300	5050	8.08	11.2	54	F 8.0	301	14	27	9.5	--	0	167	--	6.7	--	.10	164	148	2A	
	5050	743	105	12	C 8.3	308	.70 21	2.26 67	.41 12	.00	2.74	--	.19	--	--	--	11	0.3		
07/11/74 1130	5050	7.22	10.9	55	F 8.1	306	14	27	8.2	--	0	164	--	5.6	--	.10	173	148	2A	
	5050	461	103	13	C 8.0	323	.70 21	2.26 68	.36 11	.00	2.69	--	.16	--	--	--	14	0.3		
08/08/74 0945	5050	7.90	10.7	53.5F	7.9	291	15	27	9.4	--	0	169	--	6.2	--	.10	152	149	2A	
	5050	650	99	11.9C	8.2	303	.75 22	2.23 66	.41 12	.00	2.77	--	.17	--	--	--	11	0.3		
09/04/74 1030	5050	7.37	10.9	55	F 8.0	293	16	26	9.2	--	0	174	--	4.7	--	--	181	146	1A	
	5050	508	103	13	C 8.3	307	.80 24	2.14 64	.40 12	.00	2.85	--	.13	--	--	--	5	0.3		
B0 2105.00 MOKELUMNE RIVER AT WOODBRIDGE																				
10/03/73 1005	5050	5.90	10.9	57	F 7.2	50	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	305	105	14	C															
10/31/73 1230	5050	8.88		55	F	54	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	812		13	C															
12/03/73 0930	5050	9.09	11.0	52	F 7.2	49	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	504	100	11	C															
01/11/74 1540	5050	11.05		50	F	48	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	1148		10	C															
02/07/74 1730	5050	7.28	11.9	48	F 7.0	48	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	475	102	9	C															
02/22/74 0945	5050	5.20	12.0	46	F 7.1	50	5.2	1.2	2.5	--	0	20	--	1.4	--	--	--	18	6A	
	5050	452	101	8	C 7.5	50	.26 55	.10 21	.11 23	.00	.33	--	.04	--	--	--	2	0.3		
03/08/74 1430	5050	16.20	11.9	50	F 7.0	44	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	2338	105	10	C															
04/05/74 1230	5050	16.05	12.3	51	F 7.1	45	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	2275	110	11	C															
05/21/74 1400	5050	8.53		57	F 7.2		--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	749		14	C															
06/03/74 1345	5050	15.60	10.2	58	F 7.1	45	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	2200	100	14	C															
07/12/74 1430	5050	6.70	8.7	66	F 7.2	45	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	452	93	19	C															
08/22/74 1430	5050	6.61	8.8	67	F 7.2	47	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	447	95	19	C															
09/05/74 1300	5050	6.85	8.4	68	F 7.2	46	4.5	1.2	2.3	--	0	24	--	.7	--	--	66	16	1A	
	5050	492	92	20	C 7.2	47	.22 52	.10 24	.10 24	.00	.39	--	.02	--	--	--	0	0.2		
B0 2580.00 STOCKTON DIVERTING CANAL AT STOCKTON																				
10/03/73 0915	5050	2.93	7.4	58	F 7.4	175	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	1.8	72	14	C															
11/29/73 1130	5050	2.79				260	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	.0 LO4																		
12/13/73 1020	5050	3.35	10.5	48	F 7.2	245	15	10	9.2	--	0	33	--	9.4	--	--	146	79	30A	
	5050	7.1	90	9	C 7.1	224	.75 38	.83 42	.40 20	.00	.54	--	.27	--	--	--	52	0.5		
01/24/74 1450	5050	5.54		58	F	180	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	212		14	C															
02/07/74 1630	5050	2.96		53	F	240	--	--	--	--	--	--	--	--	--	--	--	--	--	
	5050	1.1		12	C															



DATE TIME	SAMPLE LAB	G.H. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	FIELD EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				
																	PERCENT REACTANCE VALUE								
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR					
STOCKTON DIVERTING CANAL AT STOCKTON		CONTINUED																							
03/08/74 1400	5050	8.45 1491	11.7 106	52 11	F C	7.7 8.2	190 193	20 1.00 51	8.0 .66 33	6.4 .28 14	1.6 .04 2	0 .00	92 1.51 80	13 .27 14	3.7 .10 5	.4 .01 1	.00 --	-- --	118 98	83 8	16A 0.3				
04/05/74 1130	5050	4.42 72	11.2 116	63 17	F C	7.9 7.7	173	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
05/21/74 1300	5050	3.08 7.0	11.7 138	75 24	F C		227	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
06/03/74 1300	5050	2.98 5.2	12.7 160	82 28	F C		222	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
07/12/74 1330	5050	3.12 5.9	12.3 153	81 27	F C	9.0 7.7	189	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
08/22/74 1315	5050	3.04 2.6	8.7 115	87 31	F C	8.0 7.7	199	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
09/05/74 1210	5050	3.00 1.8	7.0 83	76 24	F C	7.6 7.8	200 204	19 .95 46	8.9 .73 35	9.0 .39 19	--	0 .00	102 1.67	--	4.6 .13	--	--	--	124	84 1	10A 0.4				
STOCKTON DIVERTING CANAL AT STOCKTON		CONTINUED																							
10/15/73 1600	5050		7.1 76	66 19	F C	7.9 7.7	565 548	--	--	--	--	0 .00	111 1.82	--	80 2.26	--	--	--	308		17AF				
10/18/73 0745	5050	12.17	7.7 81	64.4F 18.0C	7.2 7.7	390 494	23 1.15 26	11 .90 20	53 2.31 52	3.5 .09 2	0 .00	105 1.72 38	42 .87 19	70 1.97 43	--	.02	--	--	254	100 17	20C 2.3				
11/12/73 1030	5001 5050			51.8F 11.0C	7.7	592	29 1.45 29	14 1.15 21	65 2.83 51	2.7 .07 1	0 .00	125 2.05 38	45 .94 17	82 2.31 43	7.4 .12 2	.20	--	--	338 307	130 28	2.5				
11/13/73 1620	5001 5050		7.3 72	59 15	F C	7.7 7.8	605 613	--	--	--	--	0 .00	124 2.03	--	103 2.90	--	--	--	346		20AF				
11/16/73 0830	5050	13.50	7.8 74	55.4F 13.0C	7.4	500	31 1.55 26	15 1.23 21	70 3.05 52	3.3 .08 1	0 .00	130 2.13 37	49 1.02 18	93 2.62 45	--	.25	.1 19.0	--	344	140 33	20C 2.6				
12/11/73 1600	5001 5050		9.7 84	48 9	F C	7.7 7.9	585 551	--	--	--	--	0 .00	91 1.49	--	75 2.12	--	--	--	306		9AF				
12/19/73 0900	5050	12.67	9.9 85	48.2F 9.0C	7.2	350	20 1.00 28	9.1 .75 21	41 1.78 50	2.1 .05 1	0 .00	78 1.28 35	40 .83 23	54 1.52 42	--	.17	.2 14.0	--	219	88 24	9C 1.9				
01/09/74 1540	5001 5050		9.8 81	45 7	F C	7.1 7.5	250 240	--	--	--	--	0 .00	61 1.00	--	25 .71	--	--	--	152		27AF				
01/30/74 0800	5050	12.42	11.0 94	47.3F 8.5C	8.2	150 317	19 .95 31	7.6 .63 21	32 1.39 46	1.8 .05 2	0 .00	68 1.11 38	34 .71 25	38 1.07 37	--	.20	.0 14.0	--	180	79 24	20C 1.8				
02/06/74 1445	5001 5050		10.0 86	48 9	F C	7.5 8.6	440 415	--	--	--	--	2.0 .07	69 1.13	--	50 1.41	--	--	--	214		14AF				
02/22/74 0740	5050	13																							

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR
90 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS CONTINUED																			
06/20/74 0645	5050 5000	13.38	8.0 87	68 20	F C	7.2 400	23 1.15 29	10 .82 21	43 1.87 48	2.6 .07 2	-- 1.44	88 .79	38 1.49	53 --	-- 16.0	.16 16.0	-- --	99	30C 1.9
06/24/74 1300	5001 5050		9.3 110	75 24	F C	7.9 675	-- --	-- --	-- --	0 .00	148 2.43	-- --	112 3.16	-- --	-- 20.0	-- --	405		33AF
07/08/74 1230	5001 5050		9.4 107	72 22	F C	8.6 815	-- --	-- --	-- --	2.0 .07	148 2.43	-- --	139 3.92	-- --	-- 15.8	-- --	498		62AF
07/22/74 1325	5001 5050		10.4 125	77 25	F C	8.3 810	-- --	-- --	-- --	0 .00	146 2.39	-- --	135 3.81	-- --	-- 18.8	-- --	426		58AF
07/25/74 0735	5050 5000	10.55	7.2 89	81 27	F C	7.6 900	41 2.05 28	20 1.64 22	83 3.61 49	4.0 .10 1	-- 2.51	63 1.31	130 3.67	-- --	.28 20.0	.1 20.0	190	40A 2.7	
08/06/74 1145	5001 5050		8.5 104	79 26	F C	8.2 825	-- --	-- --	-- --	0 .00	150 2.46	-- --	132 3.72	-- --	-- 19.6	-- --	451		62AF
08/22/74 0750	5050 5050	10.95	7.4 86	73 23	F C	7.2 600	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	378		
08/22/74 1325	5001 5050		8.5 100	75.2F 24.0C	7.9 C	995	-- --	-- --	-- --	0 .00	116 1.90	-- --	101 2.85	-- --	-- 18.4	-- --	355		34AF
09/04/74 1125	5001 5050		7.3 83	72 22	F C	7.6 550	-- --	-- --	-- --	0 .00	114 1.87	-- --	85 2.40	-- --	-- 18.8	-- --	312		22AF
09/18/74 1040	5001 5050		7.3 83	72 22	F C	7.4 460	-- --	-- --	-- --	0 .00	102 1.67	-- --	71 2.00	-- --	-- 17.8	-- --	257		19AF
B1 1150.00 COSUMNES RIVER AT MICHIGAN BAR																			
11/15/73 0900	5050 5050	3.93 488	11.2 101	51 11	F C	7.2 98	8.0 .40 41	4.9 .40 41	4.2 .18 18	-- .00	0 .69	42 --	3.9 .11	-- --	-- --	-- --	81	40 6	7A 0.3
03/13/74 0930	5050 5050	5.35 1970	12.4 109	49 9	F C	7.2 78	7.3 .36 44	3.5 .29 36	3.5 .15 19	.5 .01 1	0 .00	41 .67 87	3.0 .06 8	1.3 .04 5	.2 .00	.00 --	60 39	33 0	4A 0.3
06/11/74 0930	5050 5050	3.41 239	8.7 100	72 22	F C	7.3 57	4.7 .23 40	2.5 .21 36	3.2 .14 24	-- .00	0 .49	30 --	2.5 .07	-- --	-- --	-- --	41	22 0	0A 0.3
09/03/74 0745	5050 5050	2.59 50	7.1 83	74 23	F C	7.4 65	5.4 .27 43	2.6 .21 33	3.4 .15 24	-- .00	0 .56	34 --	1.0 .03	-- --	-- --	-- --	60	24 0	4A 0.3
B1 2100.00 COSUMNES RIVER, NORTH FORK, NEAR EL DORADO																			
03/13/74 1230	5050 5050	4.84 776	12.2 108	48 9	F C	7.2 53	4.8 .24 48	1.6 .13 26	2.8 .12 24	.5 .01 2	0 .00	25 .41 84	2.5 .05 10	1.0 .03 6	.0 .00	.00 --	47 25	19 0	3A 0.3
09/03/74 0830	5050 5050	2.30 40	8.3 92	67 19	F C	7.2 48	4.5 .22 51	1.2 .10 23	2.6 .11 26	-- .00	0 .43	26 --	.5 .01	-- --	-- --	-- --	40	16 0	0A 0.3
B1 3150.00 COSUMNES RIVER, MIDDLE FORK, NEAR SOMERSET																			
03/13/74 1140	5050 5050	6.30 107	12.2 107	45 7	F C	7.1 39	3.6 .18 46	1.2 .10 26	2.4 .10 26	.5 .01 3	0 .00	22 .36 97	.5 .01 3	.0 .00	.0 .00	.00 --	39 19	14 0	1A 0.3
09/03/74 1030	5050 5050	3.90 84	8.3 84	56 13	F C	7.3 57	5.7 .28 50	1.7 .14 25	3.2 .14 25	-- .00	0 .51	31 --	.2 .01	-- --	-- --	-- --	50	21 0	0A 0.3
B1 4110.01 COSUMNES RIVER, SOUTH FORK, AT RIVER PINES																			
03/13/74 1040	5050 5050		11.8 105	46 8	F C	7.1 68	6.6 .33 48	2.4 .20 29	3.2 .14 20	.8 .02 3	0 .00	36 .59 89	2.0 .04 6	1.1 .03 5	.0 .00	.00 --	58 34	27 0	2A 0.3
09/03/74 0840	5050 5050		7.4 87	69 21	F C	7.3 128	13 .65 50	5.2 .43 33	5.0 .22 17	-- .00	0 1.05	64 --	3.5 .10	-- --	-- --	-- --	80	54 2	0A 0.3
B2 0180.01 JACKSON CREEK AT JAPUR ROAD BRIDGE																			
10/25/73 1050	2163		11.1 100	50 10	F C	7.3 218	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
11/28/73 0845	2163		12.0 99	43 6	F C	7.4 210	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
B2 0185.01 JACKSON CREEK BELOW CITY OF JACKSON STP																			
10/25/73 0920	2163		11.1 100	49 9	F C	7.2 178	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
11/28/73 1000	2163		11.6 99	45 7	F C	7.3 218	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	SI02	TDS SUM	TH NCH	TURB SAR		
82 0190.20 JACKSON CREEK ABOVE CITY OF JACKSON STP																					
10/25/73 0845	2163		10.3 91	47 8	F C	7.3	160	--	--	--	--	--	--	--	--	--	--	--	--	--	
11/28/73 1030	2163	10	12.1 102	44 7	F C	7.3	190	--	--	--	--	--	--	--	--	--	--	--	--	--	
89 D 747.2 118.4 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE																					
10/03/73 0810	5050 5050	1.07	6.7 71	65 18	F C	7.3 8.3	670 785	40 2.00	19 1.56	90 3.92	3.5 .09	0 1.00	161 2.64	64 1.33	115 3.24	11.0 .18	.20	--	444 422	179 46	9A 2.9
10/09/73 0820	5050 5050		5.6 57	61.7F 16.5C			727	--	--	--	--	--	--	--	--	--	--	--	--	14AF	
10/11/73 0800	5050	3	6.6 67	60.8F 16.0C				--	--	--	--	--	--	--	--	--	--	--	--		
10/18/73 0725	5050 5050	3	6.1 64	64 18	F C		555	--	--	--	--	--	--	--	--	--	--	--	--	16AF	
10/26/73 0905	5050 5050	3	6.6 66	59.9F 15.5C			450	--	--	--	--	--	--	--	--	--	--	--	--	11AF	
11/15/73 1320	5050 5050	3	7.5 73	58.1F 14.5C			636	--	--	--	--	--	--	--	--	--	--	--	--	13AF	
11/29/73 1240	5050 5050	3.31	9.7 87	51 11	F C	7.2 7.9	480 454	22 1.10	10 .82	50 2.18	2.0 .05	0 1.00	83 1.36	45 .94	61 1.72	4.0 .06	.10	--	255 235	98 28	8A 2.2
12/13/73 1130	5050 5050	4.00 0	9.7 85	49 9	F C	7.2 7.8	495 524	25 1.25	13 1.07	56 2.44	2.0 .05	0 1.00	89 1.46	74 1.54	68 3.1	4.5 .07	.20	--	293 286	116 43	6A 2.3
12/13/73 1345	5050	3	9.4 84	50.9F 16.5C			495	--	--	--	--	--	--	--	--	--	--	--	--		
01/30/74 1400	5050 5050		10.9 94	48 9	F C	7.3 7.8	290 300	16 .80	7.3 .60	31 1.35	1.9 .05	0 1.00	64 1.05	32 .67	34 .96	2.2 .04	.20	--	196 156	70 18	15A 1.6
02/22/74 1100	5050 5050	3.05	10.6 94	50 10	F C	7.3 7.7	500 543	26 1.30	14 1.15	56 2.44	1.4 .04	0 1.00	94 1.54	53 1.10	73 2.06	4.1 .07	.20	--	319 274	122 46	10A 2.2
03/22/74 0900	5050 5050		10.1 98	57.5F 14.2C	7.3 8.0	562 579	29 1.45	14 1.15	63 2.74	2.1 .05	0 1.00	94 1.54	69 1.44	75 2.12	4.9 .08	.30	--	326 304	127 53	14A 2.4	
03/25/74 1110	5001 5050	3	8.7 84	57 14	F C	7.6	575	--	--	--	--	0 .00	96 1.57	--	83 2.34	--	--	17.0	322		17AF
04/09/74 1045	5001 5050	3	9.0 87	57 14	F C	7.6	340	--	--	--	--	0 .00	76 1.25	--	37 1.04	--	--	17.2	204		23AF
04/19/74 1200	5050 5050		10.2 100	58 14	F C	7.4 7.4	383 402	21 1.05	10 .82	48 1.74	1.6 .04	0 1.00	78 1.28	39 .81	50 1.41	2.3 .04	.20	--	226 202	94 30	10A 1.8
04/24/74 0945	5001 5050	3	8.5 84	59 15	F C	7.4	560	--	--	--	--	0 .00	94 1.54	--	136 3.84	--	--	17.0	310		17AF
05/08/74 0950	5001 5050	3	8.7 95	68 20	F C	7.8	510	--	--	--	--	0 .00	88 1.44	--	79 2.23	--	--	15.4	298		25AF
05/21/74 1100	5050 5050	4.13	10.0 102	62 17	F C	7.3 7.2	347 366	18 .90	9.5 .78	34 1.48	2.1 .05	0 1.00	68 1.11	38 .79	51 1.44	2.3 .04	.10	--	202 188	84 29	20A 1.6
05/22/74 0855	5001 5050	3	8.3 85	63 17	F C	7.2	375	--	--	--	--	0 .00	68 1.11	--	56 1.58	--	--	14.0	205		19AF
06/05/74 0825	5001 5050	3	8.1 88	68 20	F C	7.7	260	--	--	--	--	0 .00	54 .89	--	34 .96	--	--	13.2	155		23AF
06/17/74 1100	5050 5050	3.60	8.6 95	64 21	F C	7.4 8.3	288 291	17 .85	7.4 .61	30 1.31	2.2 .06	0 1.00	64 1.05	26 .54	38 1.07	3.0 .05	.10	--	184 155	73 21	15A 1.5
06/24/74 1210	5001 5050	3	9.4 109	73 23	F C	7.8	710	--	--	--	--	0 1.00	130 2.13	--	122 3.44	--	--	18.8	431		28AF
07/08/74 1140	5001 5050	3	8.4 95	72 22	F C	8.7	840	--	--	--	--	3.0 .10	146 2.39	--	145 4.09	--	--	10.2	519		32AF
07/22/74 1225	5001 5050	3	9.4 113	77 25	F C	8.4	840	--	--	--	--	1.0 .03	144 2.36	--	140 3.95	--	--	17.8	478		33AF
07/26/74 1030	5050 5050	1.16	9.5 121	83 28	F C	8.0 7.4	825 863	43 2.15	22 1.81	91 3.96	3.9 .10	0 1.00	151 2.47	78 1.62	132 3.72	6.5 .10	.30	--	478 451	198 75	19A 2.8

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					TURB SAR					
						CA	MG	NA	K	CO3	PERCENT HCO3	SD4	CL	NO3	8	F	TDS SUM	TH NCH								
89 D 747.2 118.4 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE																						CONTINUED				
08/06/74 1055	5001 5050	3	8.4 103	79 26	F C	8.0	790	--	--	--	--	0 .00	146 2.39	-- 3.53	125 3.53	--	-- 18.0	438		32AF						
08/22/74 1250	5001 5050	3	8.8 104	75.2 24.0	F C	8.0	711	--	--	--	--	0 .00	124 2.03	-- 3.05	108 3.05	--	-- 16.6	380		30AF						
08/24/74 1230	5050 5050		9.5 113	76 24	F C	8.0 7.9	653 687	34 1.70	17 1.40	72 3.13	3.3 .08	0 .00	136 2.23	59 1.23	94 2.65	4.7 .08	.20 --	382 351	156 44	2.5						
09/04/74 1040	5001 5050	3	7.7 89	73 23	F C	7.7	580	--	--	--	--	0 .00	118 1.93	-- 2.54	90 2.54	--	-- 17.8	335		18AF						
09/05/74 0930	5050 5050	2.98	8.6 101	75 24	F C	7.9 7.9	568 594	30 1.50	14 1.15	62 2.70	2.9 .07	0 .00	123 2.02	49 1.02	76 2.14	5.4 .09	.20 --	334 300	135 32	2.3						
09/18/74 1000	5001 5050	3	7.7 87	72 22	F C	7.5	550	--	--	--	--	0 .00	120 1.97	-- 2.45	87 2.45	--	-- 17.8	327		18AF						
89 D 748.0 125.2 SUGAR CUT AT MOUTH																										
10/09/73 0740	5050 5050	3	4.8 49	63 17	F C		821	--	--	--	--	--	--	--	--	--	--			13AF						
10/18/73 0735	5050 5050	3	4.7 49	64 18	F C		580	--	--	--	--	--	--	--	--	--	--			9AF						
10/26/73 0825	5050 5050	3	5.3 53	61 16	F C		530	--	--	--	--	--	--	--	--	--	--			10AF						
11/15/73 1155	5050 5050	3	6.4 62	57 14	F C		662	--	--	--	--	--	--	--	--	--	--			14AF						
12/13/73 1230	5050	3	8.8 78	50 10	F C		528	--	--	--	--	--	--	--	--	--	--									
89 D 748.3 126.9 OLD RIVER AT TRACY ROAD BRIDGE																										
10/09/73 0750	5050	3	5.0 51	63 17	F C			--	--	--	--	--	--	--	--	--	--									
10/15/73 1335	5001 5050	3	5.3 57	66 19	F C	7.5 7.9	595 584	--	--	--	--	0 .00	126 2.07	-- 2.23	79 2.23	--	-- 22.0			16AF						
10/18/73 0745	5050	3	5.3 57	66 19	F C			--	--	--	--	--	--	--	--	--	--									
10/26/73 0840	5050	3	5.8 58	61 16	F C			--	--	--	--	--	--	--	--	--	--									
11/13/73 1410	5001 5050	3	5.7 55	57 14	F C	7.7 7.9	890 891	--	--	--	--	0 .00	162 2.66	-- 3.95	140 3.95	--	-- 22.0			14AF						
11/15/73 1235	5050	3	6.4 63	59 15	F C			--	--	--	--	--	--	--	--	--	--									
11/31/73 1245	5050	3	8.1 70	48 9	F C			--	--	--	--	--	--	--	--	--	--									
12/11/73 1345	5001 5050	3	7.8 67	48 9	F C	7.4 7.7	690 655	--	--	--	--	0 .00	111 1.82	-- 2.82	100 2.82	--	-- 16.2			14AF						
01/09/74 1320	5001 5050	3	9.2 76	45 7	F C	7.2 7.6	378 385	--	--	--	--	0 .00	77 1.26	-- 1.24	44 1.24	--	-- 14.0			24AF						
02/06/74 1200	5001 5050	3	10.0 86	48 9	F C	7.4 9.7	470 433	--	--	--	--	24 .80	25 .41	-- 1.61	57 1.61	--	-- 13.6			17AF						
03/26/74 1130	5001 5050	3	8.3 82	59 15	F C	7.6	670	--	--	--	--	0 .00	104 1.70	-- 2.76	98 2.76	--	-- 17.0			17AF						
04/10/74 1120	5001 5050	3	7.8 77	59 15	F C	7.7	467	--	--	--	--	0 .00	92 1.51	-- 1.61	57 1.61	--	-- 17.2			19AF						
04/25/74 1055	5001 5050	3	9.1 90	59 15	F C	7.8	618	--	--	--	--	0 .00	104 1.70	-- 2.62	93 2.62	--	-- 16.2			16AF						
05/09/74 1030	5001 5050	3	8.2 88	66 19	F C	8.1	555	--	--	--	--	0 .00	92 1.51	-- 2.43	86 2.43	--	-- 13.6			28AF						
05/23/74 0910	5001 5050	3	8.3 87	64 18	F C	7.5	520	--	--	--	--	0 .00	90 1.48	-- 2.34	83 2.34	--	-- 13.4			20AF						

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR						
B9 D 748.3 126.9 OLD RIVER AT TRACY ROAD BRIDGE						CONTINUED																			
06/06/74 0905	5001 5050		7.2 80	70 21	F C	7.3	320	--	--	--	--	0 .00	64 1.05	--	44 1.24	--	--	13.4							32AF
06/25/74 1220	5001 5050		11.3 131	73 23	F C	7.7	760	--	--	--	--	0 .00	130 2.13	--	125 3.53	--	--	17.0							32AF
07/09/74 1130	5001 5050		6.9 78	72 22	F C	8.6	928	--	--	--	--	3.0 .10	164 2.69	--	170 4.79	--	--	14.1							32AF
07/23/74 1120	5001 5050		6.3 77	79 26	F C	8.0	1000	--	--	--	--	0 .00	166 2.72	--	184 5.19	--	--	16.6							27AF
08/07/74 1120	5001 5050		8.0 96	77 25	F C	8.0	950	--	--	--	--	0 .00	168 2.75	--	160 4.51	--	--	14.2							29AF
08/23/74 1300	5001 5050		7.8 95	78.8F 26.0C	7.8	630	--	--	--	--	0 .00	128 2.10	--	113 3.19	--	--	15.8							32AF	
09/05/74 1045	5001 5050		6.5 74	72 22	F C	7.8	680	--	--	--	--	0 .00	124 2.03	--	99 2.79	--	--	15.8							21AF
09/19/74 1025	5001 5050		6.8 77	72 22	F C	7.7	690	--	--	--	--	0 .00	132 2.16	--	108 3.05	--	--	13.6							22AF
B9 D 748.6 119.4 SAN JOAQUIN RIVER BELOW HEAD OF OLD RIVER																									
10/09/73 0810	5050		5.2 53	61.7F 16.5C				--	--	--	--	--	--	--	--	--	--	--							
10/11/73 0750	5050		6.3 64	60.8F 16.0C				--	--	--	--	--	--	--	--	--	--	--							
10/18/73 0715	5050		5.9 63	65.3F 18.5C				--	--	--	--	--	--	--	--	--	--	--							
10/26/73 0855	5050		6.4 65	60.8F 16.0C				--	--	--	--	--	--	--	--	--	--	--							
11/15/73 1305	5050		7.4 72	58.1F 14.5C				--	--	--	--	--	--	--	--	--	--	--							
B9 D 748.6 123.5 OLD RIVER BELOW HEAD OF MIDDLE RIVER																									
10/09/73 0810	5050		4.6 46	61 16	F C			--	--	--	--	--	--	--	--	--	--	--							
10/16/73 0810	5050		5.1 54	64 18	F C			--	--	--	--	--	--	--	--	--	--	--							
10/26/73 0905	5050		5.4 54	61 16	F C			--	--	--	--	--	--	--	--	--	--	--							
11/15/73 1300	5050		7.0 68	57 14	F C			--	--	--	--	--	--	--	--	--	--	--							
12/13/73 1310	5050		7.9 70	50 10	F C			--	--	--	--	--	--	--	--	--	--	--							
B9 D 749.1 121.6 OLD RIVER ABOVE HEAD OF MIDDLE RIVER																									
10/09/73 0840	5050		4.4 44	61 16	F C		824	--	--	--	--	--	--	--	--	--	--	--							12AF
10/18/73 0825	5050		5.7 61	66 19	F C		510	--	--	--	--	--	--	--	--	--	--	--							14AF
10/26/73 0920	5050		6.3 64	61 16	F C		490	--	--	--	--	--	--	--	--	--	--	--							9AF
11/15/73 1315	5050		6.6 64	57 14	F C		625	--	--	--	--	--	--	--	--	--	--	--							14AF
12/13/73 1325	5050		8.9 79	50 10	F C		505	--	--	--	--	--	--	--	--	--	--	--							
B9 D 749.2 126.9 GRANT LINE CANAL AT TRACY ROAD BRIDGE																									
10/09/73 0720	5050		5.6 58	63 17	F C		834	--	--	--	--	--	--	--	--	--	--	--							12AF
10/18/73 0615	5050		6.1 63	63 17	F C		475	--	--	--	--	--	--	--	--	--	--	--							25AF

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER								
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR					
89 D 749.2 126.9 GRANT LINE CANAL AT TRACY ROAD BRIDGE						CONTINUED																		
10/26/73 0800	5050 5050		5.8 58	61 16	F C	440	--	--	--	--	--	--	--	--	--	--	--	--						10AF
		3																						
11/15/73 1155	5050 5050		5.9 59	61 16	F C	598	--	--	--	--	--	--	--	--	--	--	--	--						12AF
		3																						
12/13/73 1150	5050 5050		6.9 79	50 10	F C	522	--	--	--	--	--	--	--	--	--	--	--	--						
		3																						
89 D 749.5 122.7 MIDDLE RIVER AT HEAD																								
10/09/73 0825	5050 5050		4.5 45	61 16	F C	792	--	--	--	--	--	--	--	--	--	--	--	--						12AF
		3																						
10/18/73 0815	5050 5050		5.5 58	64 18	F C	480	--	--	--	--	--	--	--	--	--	--	--	--						16AF
		3																						
10/26/73 0915	5050 5050		5.9 59	61 16	F C	530	--	--	--	--	--	--	--	--	--	--	--	--						10AF
		3																						
11/15/73 1310	5050 5050		5.9 57	57 14	F C	608	--	--	--	--	--	--	--	--	--	--	--	--						14AF
		3																						
12/13/73 1315	5050 5050		9.2 79	48 9	F C	503	--	--	--	--	--	--	--	--	--	--	--	--						
		3																						
89 D 749.8 133.2 WEST CANAL AT MOUTH OF INTAKE TO CLIFTON CT FOREBAY																								
10/15/73 1440	5001 5050		6.9 74	66 19	F C	7.6 8.0	310 306	--	--	--	--	0 .00	90 1.48	-- 1.04	37 17.8	--	--	176						18AF
		3																						
11/13/73 1505	5001 5050		7.4 73	59 15	F C	7.7 8.1	525 533	--	--	--	--	0 .00	106 1.74	-- 2.37	84 18.2	--	--	299						15AF
		3																						
12/11/73 1450	5001 5050		9.1 79	48 9	F C	7.3 7.8	498 476	--	--	--	--	0 .00	88 1.44	-- 1.69	60 16.0	--	--	263						14AF
		3																						
01/09/74 1425	5001 5050		9.3 76	45 7	F C	7.2 7.7	340 344	--	--	--	--	0 .00	70 1.15	-- 1.07	38 13.6	--	--	201						24AF
		3																						
02/06/74 1310	5001 5050		9.8 85	48 9	F C	7.4 9.7	408 391	--	--	--	--	24 .80	21 .34	-- 1.35	48 13.4	--	--	207						17AF
		3																						
03/26/74 1025	5001 5050		8.2 81	59 15	F C	7.4	280	--	--	--	--	0 .00	70 1.15	-- .79	28 16.0	--	--	170						18AF
		3																						
04/10/74 1025	5001 5050		7.7 76	59 15	F C	7.6	342	--	--	--	--	0 .00	74 1.21	-- 1.04	37 17.0	--	--	200						27AF
		3																						
04/25/74 0955	5001 5050		8.1 82	61 16	F C	7.6	380	--	--	--	--	0 .00	74 1.21	-- 1.35	48 15.0	--	--	218						21AF
		3																						
05/09/74 1130	5001 5050		7.4 81	68 20	F C	7.8	365	--	--	--	--	0 .00	72 1.18	-- 1.27	45 14.0	--	--	201						27AF
		3																						
05/23/74 1015	5001 5050		8.2 88	66 19	F C	7.4	260	--	--	--	--	0 .00	62 1.02	-- .87	31 13.8	--	--	140						29AF
		3																						
06/06/74 1000	5001 5050		6.4 74	73 23	F C	7.1	185	--	--	--	--	0 .00	58 .95	-- .51	18 14.2	--	--	120						30AF
		3																						
06/25/74 1325	5001 5050		7.5 85	72 22	F C	7.2	180	--	--	--	--	0 .00	56 .92	-- .39	14 14.8	--	--	108						28AF
		3																						
07/09/74 1225	5001 5050		7.0 79	72 22	F C	8.1	153	--	--	--	--	0 .00	62 1.02	-- .37	13 14.9	--	--	96						23AF
		3																						
07/23/74 1215	5001 5050		7.0 84	77 25	F C	7.6	190	--	--	--	--	0 .00	60 .98	-- .56	20 15.6	--	--	116						29AF
		3																						
08/07/74 1220	5001 5050		7.4 90	79 26	F C	7.5	270	--	--	--	--	0 .00	68 1.11	-- 1.24	44 15.0	--	--	150						24AF
		3																						
08/23/74 1355	5001 5050		7.9 95	77.0 25.0	F C	7.6	235	--	--	--	--	0 .00	64 1.05	-- .93	33 14.6	--	--	137						25AF
		3																						
09/05/74 1140	5001 5050		7.5 87	73 23	F C	7.7	243	--	--	--	--	0 .00	66 1.08	-- .76	27 12.4	--	--	139						18AF
		3																						
09/19/74 1115	5001 5050		7.5 85	72 22	F C	7.5	225	--	--	--	--	0 .00	76 1.25	-- .62	22 10.0	--	--	134						22AF
		3																						

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	OO SAT	TEMP	FIELD LABORATORY PM EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					TURB SAR
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCM								
B9 D 751.9 119.3 SAN JOAQUIN RIVER AT BRANDT BRIDGE																										
10/09/73 0740	5050 5050		4.8 49	61.7F 16.5C	787	--	--	--	--	--	--	--	--	--	--	--	--	--	--						12AF	
10/11/73 0725	5050		5.6 56	60.8F 16.0C		--	--	--	--	--	--	--	--	--	--	--	--	--	--							
		3																								
10/18/73 0645	5050 5050		5.5 58	65.3F 18.5C	550	--	--	--	--	--	--	--	--	--	--	--	--	--	--						24AF	
10/26/73 0830	5050 5050		5.7 57	60.8F 16.0C	530	--	--	--	--	--	--	--	--	--	--	--	--	--	--						10AF	
11/15/73 1240	5050 5050		6.7 65	58.1F 14.5C	589	--	--	--	--	--	--	--	--	--	--	--	--	--	--						10AF	
12/13/73 1415	5050		9.3 83	50.5F 10.3C	507	--	--	--	--	--	--	--	--	--	--	--	--	--	--							
03/25/74 1020	5001 5050		8.4 81	57 F 14 C	7.5 570	--	--	--	--	0 .00	96 1.57	--	82 2.31	--	--	--	--	--	--						16AF	
04/09/74 1005	5001 5050		9.0 89	59 F 15 C	7.6 322	--	--	--	--	0 .00	74 1.21	--	35 .99	--	--	--	--	--	--						22AF	
		1																								
04/24/74 0905	5001 5050		9.1 90	59 F 15 C	7.7 490	--	--	--	--	0 .00	84 1.38	--	69 1.95	--	--	--	--	--	--						13AF	
		3																								
05/08/74 0915	5001 5050		8.7 93	66 F 19 C	7.9 410	--	--	--	--	0 .00	72 1.18	--	59 1.66	--	--	--	--	--	--						18AF	
		3																								
05/22/74 0810	5001 5050		8.9 92	63 F 17 C	7.2 355	--	--	--	--	0 .00	68 1.11	--	53 1.49	--	--	--	--	--	--						16AF	
		3																								
06/05/74 0745	5001 5050		7.7 86	70 F 21 C	7.4 235	--	--	--	--	0 .00	56 .92	--	32 .90	--	--	--	--	--	--						18AF	
		3																								
06/24/74 1130	5001 5050		11.0 130	75 F 24 C	8.1 520	--	--	--	--	0 .00	104 1.70	--	79 2.23	--	--	--	--	--	--						24AF	
		3																								
07/08/74 1100	5001 5050		5.6 65	73 F 23 C	7.9 430	--	--	--	--	0 .00	98 1.61	--	71 2.00	--	--	--	--	--	--						24AF	
		3																								
07/22/74 1140	5001 5050		5.5 67	79 F 26 C	8.0 490	--	--	--	--	0 .00	98 1.61	--	90 2.54	--	--	--	--	--	--						18AF	
		3																								
08/06/74 1020	5001 5050		5.5 67	79 F 26 C	7.7 490	--	--	--	--	0 .00	116 1.90	--	81 2.28	--	--	--	--	--	--						16AF	
		3																								
08/22/74 1210	5001 5050		3.2 38	75.2F 24.0C	7.7 590	--	--	--	--	0 .00	144 2.36	--	82 2.31	--	--	--	--	--	--						12AF	
		3																								
09/04/74 1000	5001 5050		8.7 101	73 F 23 C	7.9 610	--	--	--	--	0 .00	120 1.97	--	90 2.54	--	--	--	--	--	--						21A	
		3																								
09/18/74 0930	5001 5050		8.9 101	72 F 22 C	7.5 585	--	--	--	--	0 .00	116 1.90	--	94 2.65	--	--	--	--	--	--						12AF	
		3																								
B9 D 753.5 129.3 MIDDLE RIVER AT BORDEN HIGHWAY																										
10/15/73 1300	5001 5050		6.7 72	66 F 19 C	7.4 340 7.7 352	--	--	--	--	0 .00	94 1.54	--	41 1.16	--	--	--	--	--	--						16AF	
		3																								
11/12/73 1200	5001 5050			68.0F 20.0C		--	--	32 1.39	--	--	--	--	37 1.04	--	--	--	--	--	--						179	
11/13/73 1330	5001 5050		7.8 75	57 F 14 C	7.3 308 7.9 310	--	--	--	--	0 .00	78 1.28	--	36 1.02	--	--	--	--	--	--						15AF	
		3																								
12/11/73 1305	5001 5050		9.0 78	48 F 9 C	7.4 382 7.8 363	--	--	--	--	0 .00	74 1.21	--	46 1.30	--	--	--	--	--	--						17AF	
		3																								
01/09/74 1230	5001 5050		9.1 73	43 F 6 C	7.2 385 7.9 368	--	--	--	--	0 .00	70 1.15	--	44 1.24	--	--	--	--	--	--						18AF	
		3																								
02/06/74 1055	5001 5050		9.7 82	46 F 8 C	7.3 413 9.5 390	--	--	--	--	17 .57	35 .57	--	52 1.47	--	--	--	--	--	--						21AF	
		3																								

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR	
89 D 753.8 119.6 SAN JOAQUIN RIVER BELOW FAIRCHILD SCHOOL																				
10/09/73 0730	5050		4.7 48	61.7F 16.5C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
10/11/73 0715	5050		5.6 56	60.8F 16.0C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
10/18/73 0635	5050		5.3 56	65.3F 18.5C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
10/26/73 0820	5050		5.9 59	60.8F 16.0C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
11/15/73 1230	5050		6.4 63	59 F 15 C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
89 D 755.7 119.6 SAN JOAQUIN RIVER AT HIGHWAY 4																				
10/09/73 0720	5050 5050		5.7 58	61.7F 16.5C	716	--	--	--	--	--	--	--	--	--	--	--	--	--	17AF	
		3																		
10/11/73 0707	5050		5.9 60	61.7F 16.5C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
10/18/73 0625	5050 5050		6.2 66	66 F 19 C	430	--	--	--	--	--	--	--	--	--	--	--	--	--	17AF	
		3																		
10/26/73 0805	5050 5050		6.6 67	61.7F 16.5C	510	--	--	--	--	--	--	--	--	--	--	--	--	--	10AF	
		3																		
11/15/73 1220	5050 5050		5.9 58	59 F 15 C	622	--	--	--	--	--	--	--	--	--	--	--	--	--	11AF	
		3																		
12/13/73 1435	5050		9.0 80	50.4F 10.2C	512	--	--	--	--	--	--	--	--	--	--	--	--	--		
		3																		
89 D 756.3 120.1 SAN JOAQUIN RIVER BELOW SANTA FE RR XING AT STOCKTON																				
10/09/73 0710	5050 5050		5.5 56	61.7F 16.5C	686	--	--	--	--	--	--	--	--	--	--	--	--	--	18AF	
		3																		
10/11/73 0700	5050		6.5 66	61.7F 16.5C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
10/18/73 0615	5050 5050		8.4 90	66 F 19 C	450	--	--	--	--	--	--	--	--	--	--	--	--	--	15AF	
		3																		
10/26/73 0800	5050 5050		6.6 67	61.7F 16.5C	590	--	--	--	--	--	--	--	--	--	--	--	--	--	11AF	
		3																		
11/15/73 1210	5050 5050		5.7 56	59 F 15 C	658	--	--	--	--	--	--	--	--	--	--	--	--	--	10AF	
		3																		
12/13/73 1455	5050		8.6 76	50.4F 10.2C		--	--	--	--	--	--	--	--	--	--	--	--	--		
		3																		
89 D 756.9 120.2 SAN JOAQUIN RIVER AT U.S. NAVAL RES RR CROSSING																				
10/09/73 0700	5050		6.1 62	61.7F 16.5C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
10/11/73 0655	5050		6.0 61	61.7F 16.5C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
10/18/73 0610	5050		7.0 74	64 F 18 C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
10/26/73 0750	5050		6.3 64	60.8F 16.0C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
11/15/73 1200	5050		59 F 15 C			--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		
89 D 757.1 120.2 STOCKTON SHIP CHANNEL AT LIGHT AB																				
10/09/73 0910	5050 5050		5.0		526	--	--	--	--	--	--	--	--	--	--	--	--	--	11AF	
		3																		
10/09/73 0911	5050 5050		5.2		512	--	--	--	--	--	--	--	--	--	--	--	--	--	15AF	
		30																		
10/11/73 0650	5050		5.6 58	63 F 17 C		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
		3																		



TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					TURB SAR
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TD5 SUM	TH NCH		
89 D 757.1 120.2 STOCKTON SHIP CHANNEL AT LIGHT 48 CONTINUED																				
10/18/73 0840	5050 5050		6.4 70	68 20	F C	513	--	--	--	--	--	--	--	--	--	--	--	--	10AF	
		3																		
10/18/73 0841	5050 5050		5.6 61	68 20	F C	505	--	--	--	--	--	--	--	--	--	--	--	--	15AF	
		32																		
10/26/73 0945	5050 5050		5.8 60	63 17	F C	461	--	--	--	--	--	--	--	--	--	--	--	--	12AF	
		3																		
10/26/73 0946	5050 5050		6.1 63	63 17	F C	496	--	--	--	--	--	--	--	--	--	--	--	--	15AF	
		32																		
11/15/73 1330	5050 5050		5.5 54	59 15	F C	672	--	--	--	--	--	--	--	--	--	--	--	--	11AF	
		3																		
11/15/73 1331	5050 5050		5.5 54	59 15	F C	663	--	--	--	--	--	--	--	--	--	--	--	--	16AF	
		29																		
12/13/73 1350	5050 5050		8.7 77	50 10	F C	552	--	--	--	--	--	--	--	--	--	--	--	--	13AF	
		3																		
12/13/73 1351	5050 5050		8.8 78	50 10	F C	550	--	--	--	--	--	--	--	--	--	--	--	--	15AF	
		32																		
89 D 757.4 131.7 MIDDLE RIVER AT BACON ISLAND BRIDGE																				
03/25/74 1100	5001 5050		8.0 79	59 15	F C	7.3 286	--	--	--	--	--	--	34 .96	--	--	--	16.0	--	18AF	
		3																		
04/09/74 0930	5001 5050		8.3 82	59 15	F C	7.2 372	--	--	--	--	--	--	48 1.35	--	--	--	16.6	--	12AF	
		3																		
04/25/74 0910	5001 5050		7.7 78	61 16	F C	7.2 340	--	--	--	--	--	--	45 1.27	--	--	--	14.8	--	17AF	
		3																		
05/09/74 0855	5001 5050		6.5 75	73 23	F C	7.3 329	--	--	--	--	--	--	45 1.27	--	--	--	14.8	--	21AF	
		3																		
05/22/74 0830	5001 5050		7.5 79	64 18	F C	7.3 260	--	--	--	--	--	--	36 1.02	--	--	--	13.8	--	24AF	
		3																		
06/05/74 0815	5001 5050		6.4 73	72 22	F C	7.3 241	--	--	--	--	--	--	28 .79	--	--	--	13.6	--	23AF	
		3																		
06/24/74 1120	5001 5050		5.9 67	72 22	F C	7.4 174	--	--	--	--	--	--	17 .48	--	--	--	15.0	--	25AF	
		3																		
07/08/74 1030	5001 5050		6.6 76	73.4F 23.0C	7.6 147	--	--	--	--	--	--	--	10 .28	--	--	--	14.4	--	22AF	
		3																		
07/22/74 1025	5001 5050		7.3 88	77 25	F C	7.5 172	--	--	--	--	0 .00	62 1.02	12 .34	--	--	--	15.6	--	19AF	
		3																		
08/06/74 0940	5001 5050		7.2 86	77 25	F C	7.6 188	--	--	--	--	0 .00	60 .98	19 .54	--	--	--	14.8	--	20AF	
		3																		
08/22/74 1140	5001 5050		7.5 87	73 23	F C	7.7 182	--	--	--	--	0 .00	64 1.05	18 .51	--	--	--	13.8	--	17AF	
		3																		
09/05/74 1035	5001 5050		8.0 92	73 23	F C	7.6 174	--	--	--	--	0 .00	64 1.05	15 .42	--	--	--	11.2	--	15AF	
		3																		
09/18/74 0925	5001 5050		8.0 92	73 23	F C	7.8 290	--	--	--	--	0 .00	92 1.51	45 1.27	--	--	--	5.6	--	15AF	
		3																		
89 D 757.6 121.5 STOCKTON SHIP CHANNEL AT LIGHT 43																				
10/09/73 0840	5050 5050		4.9			538	--	--	--	--	--	--	--	--	--	--	--	--	9AF	
		3																		
10/09/73 0841	5050 5050		4.8			464	--	--	--	--	--	--	--	--	--	--	--	--	22AF	
		31																		
10/18/73 0815	5050 5050		4.9 52	66 19	F C	514	--	--	--	--	--	--	--	--	--	--	--	--	10AF	
		3																		
10/18/73 0816	5050 5050		4.3 46	66 19	F C	483	--	--	--	--	--	--	--	--	--	--	--	--	17AF	
		30																		
10/26/73 0925	5050 5050		5.8 60	63 17	F C	424	--	--	--	--	--	--	--	--	--	--	--	--	11AF	
		3																		

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					TURB SAR
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		B SIO2	F	YDS SUM	TM NCH		
89 D 757.6 121.5 STOCKTON SHIP CHANNEL AT LIGHT 43 CONTINUED																					
10/26/73 0926	5050 5050		5.0 51	63 17	F C	452	--	--	--	--	--	--	--	--	--	--	--				26AF
		31																			
11/15/73 1315	5050 5050		6.1 60	59 15	F C	716	--	--	--	--	--	--	--	--	--	--	--				10AF
		3																			
11/15/73 1316	5050 5050		6.3 62	59 15	F C	750	--	--	--	--	--	--	--	--	--	--	--				15AF
		30																			
12/13/73 1330	5050 5050		8.5 75	50 10	F C	550	--	--	--	--	--	--	--	--	--	--	--				13AF
		3																			
12/13/73 1331	5050 5050		8.2 72	50 10	F C	551	--	--	--	--	--	--	--	--	--	--	--				16AF
		33																			
89 D 758.1 122.2 STOCKTON SHIP CHANNEL AT LIGHT 41																					
10/09/73 0825	5050 5050		4.6			513	--	--	--	--	--	--	--	--	--	--	--				12AF
		3																			
10/09/73 0826	5050 5050		4.8			480	--	--	--	--	--	--	--	--	--	--	--				27AF
		30																			
10/18/73 0800	5050 5050		5.2 56	66 19	F C	466	--	--	--	--	--	--	--	--	--	--	--				11AF
		3																			
10/18/73 0801	5050 5050		5.1 55	66 19	F C	499	--	--	--	--	--	--	--	--	--	--	--				19AF
		28																			
10/26/73 0915	5050 5050		5.2 54	63 17	F C	417	--	--	--	--	--	--	--	--	--	--	--				12AF
		3																			
10/26/73 0916	5050 5050		5.1 52	63 17	F C	422	--	--	--	--	--	--	--	--	--	--	--				20AF
		34																			
11/15/73 1305	5050 5050		6.2 61	59 15	F C	730	--	--	--	--	--	--	--	--	--	--	--				9AF
		3																			
11/15/73 1306	5050 5050		5.3 52	59 15	F C	713	--	--	--	--	--	--	--	--	--	--	--				15AF
		30																			
12/13/73 1320	5050 5050		8.1 72	50 10	F C	560	--	--	--	--	--	--	--	--	--	--	--				12AF
		3																			
12/13/73 1321	5050 5050		8.0 71	50 10	F C	562	--	--	--	--	--	--	--	--	--	--	--				14AF
		34																			
89 D 758.2 134.3 OLD RIVER OPPOSITE RANCHO DEL RIO																					
10/01/73 1130	5001 5050		7.5 82	68 20	F C	8.0 219	--	--	--	--	0 .00	84 1.38	--	19 .54	--	--	--	139			14AF
		3																			
10/29/73 1140	5001 5050		8.9 88	59.0F 15.0C	7.9 7.8	210 190	--	--	--	--	0 .00	69 1.13	--	15 .42	--	--	15.8	116			
		3																			
12/03/73 1325	5001 5050		9.7 86	50 10	F C	6.9 7.5	182 192	--	--	--	0 .00	57 .93	--	18 .51	--	--	16.6	117			13AF
		3																			
01/14/74 1305	5001 5050		4.6 8	F C	7.7	433 419	--	--	--	--	0 .00	74 1.21	--	50 1.41	--	--	15.0	240			21AF
		3																			
03/25/74 1135	5001 5050		8.6 83	57 14	F C	7.3	178	--	--	--	--	--	--	16 .45	--	--	16.0	114			23AF
		3																			
04/25/74 0940	5001 5050		8.4 85	61 16	F C	7.3	245	--	--	--	--	--	--	28 .79	--	--	15.0	152			16AF
		3																			
05/09/74 0920	5001 5050		8.7 99	72 22	F C	7.9	188	--	--	--	--	--	--	16 .45	--	--	14.6	108			19AF
		3																			
05/22/74 0855	5001 5050		8.7 91	64 18	F C	7.5	160	--	--	--	--	--	--	15 .42	--	--	14.4	94			32AF
		3																			
06/05/74 0845	5001 5050		6.8 77	72 22	F C	7.3	151	--	--	--	--	--	--	9.0 .25	--	--	14.8	95			23AF
		3																			
06/24/74 1150	5001 5050		6.5 75	73 23	F C	7.7	136	--	--	--	--	--	--	11 .31	--	--	14.8	92			25AF
		3																			
07/08/74 1105	5001 5050		6.6 75	71.6F 22.0C	7.7	157	--	--	--	--	--	--	--	13 .37	--	--	11.4	94			22AF
		3																			

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	OO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR	
89 D 758.2 134.3 OLD RIVER OPPOSITE RANCHO DEL RIO CONTINUED																				
07/22/74 1055	5001 5050		7.5 90	77 25	F C	7.6 199	--	--	--	--	0 .00	62 1.02	--	22 .62	--	--	--	116		21AF
		3															15.6			
08/06/74 1005	5001 5050		8.0 94	75 24	F C	7.7 316	--	--	--	--	0 .00	62 1.02	--	56 1.58	--	--	--	172		21AF
		3															15.2			
08/22/74 1210	5001 5050		7.8 90	73 23	F C	7.7 267	--	--	--	--	0 .00	62 1.02	--	39 1.10	--	--	--	148		20AF
		3															16.2			
09/05/74 1105	5001 5050		7.9 91	73 23	F C	7.6 198	--	--	--	--	0 .00	64 1.05	--	21 .59	--	--	--	120		18AF
		3															13.6			
09/18/74 1020	5001 5050		8.2 93	72 22	F C	7.7 169	--	--	--	--	0 .00	68 1.11	--	12 .34	--	--	--	96		15AF
		3															13.0			
89 D 758.6 138.3 ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE																				
10/01/73 0855	5001 5050		6.7 72	66 19	F C	7.8 268 7.9 271	--	--	--	--	0 .00	90 1.48	--	28 .79	--	--	--	163		25AF
		3															17.4			
10/29/73 1010	5001 5050		8.1 80	59.0F 15.0C	7.8 7.9	220 206	--	--	--	--	0 .00	72 1.18	--	17 .48	--	--	--	123		
		3															15.6			
12/03/73 1135	5001 5050		9.1 82	52 11	F C	7.1 220 7.6 233	--	--	--	--	0 .00	66 1.08	--	22 .62	--	--	--	138		18AF
		3															17.2			
01/14/74 1115	5001 5050		46 8	F C	7.8 726	760	--	--	--	--	0 .00	116 1.90	--	97 2.74	--	--	--	400		22AF
		3															16.2			
03/26/74 0920	5001 5050		8.3 82	59 15	F C	7.3 233	--	--	--	--	0 .00	68 1.11	--	22 .62	--	--	--	146		21AF
		3															15.8			
04/10/74 0910	5001 5050		8.7 86	59 15	F C	7.6 338	--	--	--	--	0 .00	76 1.25	--	39 1.10	--	--	--	197		18AF
		3															16.4			
04/25/74 0855	5001 5050		8.7 88	61 16	F C	7.7 353	--	--	--	--	0 .00	74 1.21	--	43 1.21	--	--	--	206		17AF
		3															14.0			
05/09/74 0925	5001 5050		7.6 85	70 21	F C	7.7 215	--	--	--	--	0 .00	64 1.05	--	20 .56	--	--	--	128		24AF
		3															13.8			
05/23/74 0805	5001 5050		7.7 82	66 19	F C	7.6 178	--	--	--	--	0 .00	58 .95	--	17 .48	--	--	--	100		28AF
		3															13.8			
06/06/74 0805	5001 5050		6.6 76	73 23	F C	7.2 150	--	--	--	--	0 .00	58 .95	--	10 .28	--	--	--	98		28AF
		3															14.6			
06/25/74 1105	5001 5050		7.4 84	72 22	F C	6.8 140	--	--	--	--	0 .00	54 .89	--	11 .31	--	--	--	91		30AF
		3															14.2			
07/09/74 1020	5001 5050		6.4 71	70 21	F C	7.8 157	--	--	--	--	0 .00	62 1.02	--	14 .39	--	--	--	98		23AF
		3															14.5			
07/23/74 1020	5001 5050		6.7 80	77 25	F C	7.5 215	--	--	--	--	0 .00	62 1.02	--	25 .71	--	--	--	125		27AF
		3															15.2			
08/07/74 1030	5001 5050		7.2 88	79 26	F C	7.4 310	--	--	--	--	0 .00	64 1.05	--	55 1.55	--	--	--	177		25AF
		3															15.0			
08/23/74 1155	5001 5050		7.0 84	77.0F 25.0C	7.5 290	--	--	--	--	--	0 .00	62 1.02	--	47 1.33	--	--	--	164		22AF
		3															14.6			
09/05/74 0945	5001 5050		7.4 87	75 24	F C	7.8 239	--	--	--	--	0 .00	66 1.08	--	29 .82	--	--	--	138		20AF
		3															13.6			
09/19/74 0925	5001 5050		7.0 79	72 22	F C	7.2 182	--	--	--	--	0 .00	72 1.18	--	15 .42	--	--	--	111		22AF
		3															13.2			
89 D 758.7 122.9 SAN JOAQUIN RIVER AT BUCKLEY COVE																				
10/15/73 1215	5001 5050		6.6 71	66 19	F C	7.6 530 7.9 526	--	--	--	--	0 .00	120 1.97	--	75 2.12	--	--	--	292		12AF
		2															20.8			
11/13/73 1245	5001 5050		6.1 59	57 14	F C	7.7 647 7.8 655	--	--	--	--	0 .00	120 1.97	--	98 2.76	--	--	--	320		11AF
		2															17.4			
12/11/73 1220	5001 5050		8.3 69	46 9	F C	7.6 600 7.8 572	--	--	--	--	0 .00	100 1.64	--	90 2.54	--	--	--	323		12AF
		2															16.0			
01/09/74 1135	5001 5050		9.6 79	45 7	F C	7.2 249 7.6 248	--	--	--	--	0 .00	75 1.23	--	22 .62	--	--	--	148		20AF
		2															14.4			

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	PERCENT REACTANCE VALUE	B	F	TOS SUM	TH NCH	TURB SAR					
B9 D 758.7 122.9						SAN JOAQUIN RIVER AT BUCKLEY COVE										CONTINUED									
02/06/74	5001		9.3	48	F 7.2	403	--	--	--	--	16	37	--	52	--	--	--	209		14AF					
1000	5050		80	9	C 9.6	394					.53	.61		1.47			13.6								
		2																							
03/25/74	5001		8.1	59	F 7.3	518	--	--	--	--	--	--	--	78	--	--	--	312		14AF					
0935	5050		80	15	C									2.20			17.2								
		3																							
04/09/74	5001		8.2	59	F 7.2	277	--	--	--	--	--	--	--	34	--	--	--	175		18AF					
0810	5050		81	15	C									.96			16.2								
		3																							
04/25/74	5001		8.5	61	F 7.1	395	--	--	--	--	--	--	--	56	--	--	--	236		15AF					
0800	5050		86	16	C									1.58			15.4								
		3																							
05/09/74	5001		7.6	66	F 7.5	430	--	--	--	--	--	--	--	66	--	--	--	257		18AF					
0750	5050		81	19	C									1.86			12.8								
		3																							
05/22/74	5001		8.3	63	F 7.5	328	--	--	--	--	--	--	--	49	--	--	--	180		18AF					
0720	5050		85	17	C									1.38			13.6								
		3																							
06/05/74	5001		6.3	72	F 7.4	354	--	--	--	--	--	--	--	51	--	--	--	209		23AF					
0705	5050		72	22	C									1.44			13.0								
		3																							
06/24/74	5001			73	F 7.4	332	--	--	--	--	--	--	--	43	--	--	--	175		20AF					
1020	5050			23	C									1.21			12.6								
		3																							
07/08/74	5001		6.8	75.2	F 7.7	280	--	--	--	--	--	--	--	36	--	--	--	155		21AF					
0930	5050		80	24.0	C									1.02			14.0								
		3																							
07/22/74	5001		8.8	77	F 7.9	289	--	--	--	--	0	76	--	41	--	--	--	150		17AF					
0925	5050		106	25	C						.00	1.25		1.16			2.0								
		3																							
08/06/74	5001		7.2	79	F 7.6	229	--	--	--	--	0	74	--	26	--	--	--	151		18AF					
0835	5050		88	26	C						.00	1.21		.73			2.4								
		3																							
08/22/74	5001		7.1	77	F 7.7	282	--	--	--	--	0	80	--	32	--	--	--	140		19AF					
1040	5050		85	25	C						.00	1.31		.90			3.4								
		3																							
09/05/74	5001		6.0	77	F 7.7	504	--	--	--	--	0	134	--	85	--	--	--	283		7AF					
0925	5050		72	25	C						.00	2.20		2.40			.4								
		3																							
09/18/74	5001		2.0	73	F 7.4	529	--	--	--	--	0	136	--	80	--	--	--	311		13AF					
0830	5050		23	23	C						.00	2.23		2.26			14.6								
		3																							
B9 D 758.7 123.0						STOCKTON SHIP CHANNEL AT LIGHT 40																			
10/09/73	5050		4.5			514	--	--	--	--	--	--	--	--	--	--	--	14AF							
0815	5050																								
		3																							
10/09/73	5050		4.1			520	--	--	--	--	--	--	--	--	--	--	--	26AF							
0816	5050																								
		30																							
10/18/73	5050		4.5	66	F	472	--	--	--	--	--	--	--	--	--	--	--	13AF							
0750	5050		48	19	C																				
		3																							
10/18/73	5050		4.8	66	F	471	--	--	--	--	--	--	--	--	--	--	--	17AF							
0751	5050		51	19	C																				
		30																							
10/26/73	5050		5.2	63	F	399	--	--	--	--	--	--	--	--	--	--	--	14AF							
0905	5050		54	17	C																				
		3																							
10/26/73	5050		4.2	63	F	418	--	--	--	--	--	--	--	--	--	--	--	22AF							
0906	5050		43	17	C																				
		30																							
11/15/73	5050		6.0	59	F	683	--	--	--	--	--	--	--	--	--	--	--	8AF							
1257	5050		59	15	C																				
		3																							
11/15/73	5050		6.5	59	F	687	--	--	--	--	--	--	--	--	--	--	--	14AF							
1258	5050		64	15	C																				
		29																							
12/13/73	5050		8.3	50	F	558	--	--	--	--	--	--	--	--	--	--	--	12AF							
1310	5050		73	10	C																				
		3																							
12/13/73	5050		8.2	50	F	560	--	--	--	--	--	--	--	--	--	--	--	14AF							
1311	5050		72	10	C																				
		33																							
B9 D 758.8 128.5						TURNER CUT AT McDONALD ISLAND FERRY																			
03/25/74	5001		7.3	59	F 7.3	408	--	--	--	--	--	--	--	54	--	--	--	14AF							
1010	5050		72	15	C									1.52			16.2								
		3																							
04/09/74	5001		8.0	59	F 7.3	295	--	--	--	--	--	--	--	37	--	--	--	15AF							
0845	5050		79	15	C									1.04			15.4								
		3																							

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TURB SAR
						CA	MO	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCH						
89 D 758.8 128.5 TURNER CUT AT McDONALD ISLAND FERRY CONTINUED																								
04/25/74 0835	5001 5050		8.0 81	61 16	F C	7.3 380	--	--	--	--	--	--	--	53 1.49	--	--	--	14.4				21AF		
05/09/74 0830	5001 5050		6.3 67	66 19	F C	7.4 438	--	--	--	--	--	--	--	65 1.83	--	--	--	13.6				22AF		
05/22/74 0800	5001 5050		7.6 80	64 18	F C	7.4 327	--	--	--	--	--	--	--	46 1.30	--	--	--	12.8				23AF		
06/05/74 0730	5001 5050		5.4 61	72 22	F C	7.2 420	--	--	--	--	--	--	--	57 1.61	--	--	--	11.8				21AF		
06/24/74 1050	5001 5050		5.8 67	73 23	F C	7.4 235	--	--	--	--	--	--	--	29 .82	--	--	--	13.4				28AF		
07/08/74 1005	5001 5050		6.0 69	73.4 23.0	F C	7.6 160	--	--	--	--	--	--	--	14 .39	--	--	--	15.5				27AF		
07/22/74 0955	5001 5050		7.7 92	77 25	F C	7.8 174	--	--	--	--	0 .00	62 1.02	--	15 .42	--	--	--	13.0				22AF		
08/06/74 0910	5001 5050		7.2 86	77 25	F C	7.6 177	--	--	--	--	0 .00	62 1.02	--	16 .45	--	--	--	13.8				22AF		
08/22/74 1110	5001 5050		7.5 88	75 24	F C	7.7 178	--	--	--	--	0 .00	66 1.08	--	18 .51	--	--	--	12.6				19AF		
09/05/74 1000	5001 5050		8.8 104	75 24	F C	8.0 226	--	--	--	--	0 .00	74 1.21	--	28 .79	--	--	--	4.2				15AF		
09/18/74 0900	5001 5050		6.7 77	73 23	F C	7.7 428	--	--	--	--	0 .00	118 1.93	--	65 1.83	--	--	--	4.2				16AF		
89 D 759.1 123.6 STOCKTON SHIP CHANNEL AT LIGHT 36																								
10/09/73 0805	5050 5050		4.1 44	66 19	F C	511	--	--	--	--	--	--	--	--	--	--	--	--				17AF		
10/09/73 0806	5050 5050		4.0 43	66 19	F C	545	--	--	--	--	--	--	--	--	--	--	--	--				19AF		
10/18/73 0740	5050 5050		4.2 45	66 19	F C	472	--	--	--	--	--	--	--	--	--	--	--	--				13AF		
10/18/73 0741	5050 5050		4.2 44	64 18	F C	470	--	--	--	--	--	--	--	--	--	--	--	--				20AF		
10/26/73 0850	5050 5050		5.2 54	63 17	F C	413	--	--	--	--	--	--	--	--	--	--	--	--				16AF		
10/26/73 0851	5050 5050		5.2 54	63 17	F C	424	--	--	--	--	--	--	--	--	--	--	--	--				18AF		
11/15/73 1250	5050 5050		6.2 61	59 15	F C	633	--	--	--	--	--	--	--	--	--	--	--	--				9AF		
11/15/73 1251	5050 5050		6.1 60	59 15	F C	642	--	--	--	--	--	--	--	--	--	--	--	--				10AF		
12/13/73 1300	5050 5050		8.9 79	50 10	F C	559	--	--	--	--	--	--	--	--	--	--	--	--				12AF		
12/13/73 1301	5050 5050		8.1 72	50 10	F C	557	--	--	--	--	--	--	--	--	--	--	--	--				13AF		
89 D 759.6 121.4 14 MI SLOUGH NEAR INTER. CUMBERLAND AND 14 MILE ROAD																								
10/31/73 0800	2163 5050		11.3 108	56 13	F C	7.7 575 7.8 580	--	--	--	--	--	--	--	--	--	--	--	312				15A		
11/27/73 1030	2163 5050		11.2 98	49 9	F C	7.4 575 7.4 587	--	--	--	--	--	--	--	--	--	--	--	332				17A		
89 D 759.6 125.9 STOCKTON SHIP CHANNEL AT LIGHT 24																								
10/09/73 0745	5050 5050		4.1 44	66 19	F C	641	--	--	--	--	--	--	--	--	--	--	--	--				18AF		
10/09/73 0746	5050 5050		4.0 43	66 19	F C	627	--	--	--	--	--	--	--	--	--	--	--	--				23AF		
10/18/73 0720	5050 5050		4.1 44	66 19	F C	473	--	--	--	--	--	--	--	--	--	--	--	--				13AF		

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER HILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR
.....																			
89 D 759.6 125.9 STOCKTON SHIP CHANNEL AT LIGHT 24 CONTINUED																			
10/18/73 0721	5050 5050		4.4 46	64 18	F C	466	--	--	--	--	--	--	--	--	--	17AF			
		28																	
10/26/73 0835	5050 5050		5.1 52	63 17	F C	432	--	--	--	--	--	--	--	--	--	15AF			
		3																	
10/26/73 0836	5050 5050		4.8 49	63 17	F C	439	--	--	--	--	--	--	--	--	--	25AF			
		58																	
11/15/73 1235	5050 5050		6.5 63	57 14	F C	520	--	--	--	--	--	--	--	--	--	10AF			
		3																	
11/15/73 1236	5050 5050		6.6 64	57 14	F C	525	--	--	--	--	--	--	--	--	--	15AF			
		31																	
12/13/73 1230	5050 5050		8.5 75	50 10	F C	492	--	--	--	--	--	--	--	--	--	15AF			
		3																	
12/13/73 1231	5050 5050		8.2 72	50 10	F C	492	--	--	--	--	--	--	--	--	--	17AF			
		35																	
89 D 759.8 125.1 SAN JOAQUIN RIVER AT RINDGE PUMP																			
10/31/73 1000	5050 5050	2.04	6.0 59	59 15	F C	7.2 7.4	550 549	--	--	--	--	--	--	--	--	300 12A			
11/27/73 0900	5050 5050	2.42	7.2 64	51 11	F C	7.2 7.4	625 652	--	--	--	--	--	--	--	--	376 12A			
89 D 759.9 122.0 14 MI SLOUGH ABOVE LINCOLN VILLAGE WEST MARINA																			
10/31/73 0830	2163 5050		8.6 83	57.5F 14.2C	7.4 7.5	560 562	--	--	--	--	--	--	--	--	--	295 19A			
11/27/73 0945	2163 5050		10.1 88	49 9	F C	7.5 7.5	575 591	--	--	--	--	--	--	--	--	342 17A			
89 D 800.0 120.8 14 MILE SLOUGH AT PLYMOUTH STREET																			
10/31/73 0740	2163 5050		14.0 130	54 12	F C	8.2 8.3	550 576	--	--	--	--	--	--	--	--	318 13A			
11/27/73 1045	2163 5050		12.3 107	49 9	F C	7.4 7.4	590 575	--	--	--	--	--	--	--	--	332 13A			
89 D 800.5 134.8 OLD RIVER AT HOLLAND TRACT																			
10/01/73 0940	5001 5050		7.1 78	68 20	F C	8.0 7.9	212 221	--	--	--	0 .00	82 1.34	-- .51	18 17.6	--	130 17AF			
		3																	
10/29/73 1055	5001 5050		8.6 85	59.0F 15.0C	7.9 8.1	200 183	--	--	--	0 .00	66 1.08	-- .39	14 16.0	--	111 28AF				
		3																	
11/12/73 1100	5001 5050		68.0F 20.0C				196	--	--	32 1.39	--	--	16 .45	--	116				
12/03/73 1235	5001 5050		10.0 88	50 10	F C	7.4 7.7	156 165	--	--	--	0 .00	54 .89	-- .39	14 16.6	--	115 13AF			
		3																	
01/14/74 1215	5001 5050		46 8	F C	7.5	458 436	--	--	--	0 .00	75 1.23	-- 1.52	54 16.2	--	247 18AF				
		3																	
89 D 800.7 138.4 DUTCH SLOUGH AT BETHEL ISLAND BRIDGE																			
10/01/73 0855	5001 5050		6.0 64	66 19	F C	7.9 8.0	313 339	--	--	--	0 .00	90 1.48	-- 1.16	41 17.6	--	177 22AF			
		3																	
10/29/73 0810	5001 5050		7.6 75	59.0F 15.0C	8.0 7.7	240 228	--	--	--	0 .00	77 1.26	-- .59	21 15.4	--	133 21AF				
		3																	
11/12/73 1020	5001 5050		68.0F 20.0C				238	--	--	43 1.87	--	--	23 .65	--	138				
12/03/73 1105	5001 5050		9.5 82	48 9	F C	7.1 7.4	280 278	--	--	--	0 .00	72 1.18	-- .82	29 16.2	--	164 21AF			
		3																	
01/14/74 1020	5001 5050		46 8	F C	7.5 7.7	465 452	--	--	--	0 .00	82 1.34	-- 1.55	55 17.4	--	263 21AF				
		3																	

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR	
89 D 800.8 123.0 14 MI SLOUGH 6ELO# DISAPPOINTMENT SLOUGH																				
10/31/73 0940	2163 5050		8.4 82	58 14	F C	7.4 7.6	540 546	--	--	--	--	--	--	--	--	--	295		15A	
11/27/73 0830	2163 5050		8.6 76	50 16	F C	7.3 7.4	625 656	--	--	--	--	--	--	--	--	--	371		14A	
89 D 801.1 142.6 816 BREAK NEAR OAKLEY																				
10/02/73 1035	5001 5050		7.8 85	66.0F 20.0C	7.8 8.1	248 232	--	--	--	--	0 .00	82 1.34	--	21 .59	--	--	18.0	137	16AF	
10/30/73 0900	5001 5050		8.6 87	60.6F 16.0C	7.0 7.9	166 163	--	--	--	--	0 .00	65 1.07	--	11 .31	--	--	16.6	106	13AF	
12/04/73 1220	5001 5050		9.6 85	50 10	F C	7.1 7.7	135 135	--	--	--	--	0 .00	52 .85	--	10 .28	--	--	17.4	84	19AF
01/15/74 1110	5001 5050		10.4 88	46.4F 8.0C	7.4 7.8	234 240	--	--	--	--	0 .00	64 1.05	--	23 .65	--	--	17.0	134	16AF	
02/13/74 1040	5001 5050		10.7 92	48.2F 9.0C	7.6 8.0	194 201	--	--	--	--	0 .00	60 .98	--	19 .54	--	--	16.0	116	35AF	
03/19/74 1410	5001 5050		8.7 84	57.2F 14.0C	7.9	161	--	--	--	--	--	--	--	12 .34	--	--	16.2	94	26AF	
04/03/74 1425	5001 5050		9.8 93	55 13	F C	7.7	175	--	--	--	--	--	--	15 .42	--	--	16.6	121	28AF	
04/18/74 1435	5001 5050		9.3 92	59 15	F C	7.6	171	--	--	--	--	--	--	15 .42	--	--	15.8	110	23AF	
05/01/74 1350	5001 5050		9.9 104	64 18	F C	8.1	165	--	--	--	--	--	--	14 .39	--	--	15.4	103	22AF	
05/15/74 1215	5001 5050		9.1 96	64 18	F C	8.0	162	--	--	--	--	--	--	13 .37	--	--	14.4	92	32AF	
06/13/74 1145	5001 5050		8.6 94	68 20	F C	6.1	167	--	--	--	--	--	--	13 .37	--	--	14.0	106	37AF	
06/27/74 1140	5001 5050		8.1 90	70 21	F C	8.1	135	--	--	--	--	--	--	13 .37	--	--	13.4	96	35AF	
07/11/74 1000	5001 5050		7.6 83	68 20	F C	7.9	258	--	--	--	--	--	--	43 1.21	--	--	13.8	147	30AF	
07/25/74 1015	5001 5050		7.3 88	77 25	F C	7.7	333	--	--	--	--	0 .00	62 1.02	--	57 1.61	--	--	15.4	186	27AF
08/14/74 1455	5001 5050		8.5 96	72 22	F C	7.8	418	--	--	--	--	0 .00	64 1.05	--	83 2.34	--	--	15.1	232	21AF
08/28/74 1430	5001 5050		8.3 96	73.4F 23.0C	8.2	276	--	--	--	--	0 .00	64 1.05	--	43 1.21	--	--	15.4	148	24AF	
09/11/74 1510	5001 5050		8.8 102	73 23	F C	8.2	194	--	--	--	--	0 .00	68 1.11	--	18 .51	--	--	12.2	112	26AF
09/25/74 1325	5001 5050		9.2 101	68 20	F C	8.1	163	--	--	--	--	0 .00	68 1.11	--	10 .28	--	--	14.2	99	16AF
89 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL																				
10/02/73 0945	5001 5050		7.4 82	69.8F 21.0C	7.5 8.0	641 655	--	--	--	--	0 .00	84 1.38	--	127 3.58	--	--	17.8	318	28AF	
10/31/73 0945	5001 5050		8.5 87	62.6F 17.0C	7.4 7.0	377 397	--	--	--	--	0 .00	68 1.11	--	67 1.89	--	--	16.6	209	24AF	
11/13/73 0935	5001 5050			59.0F 15.0C		662	--	--	88 3.83	--	--	--	--	144 4.06	--	--	--	337		
12/04/73 1130	5001 5050		9.5 86	51.8F 11.0C	7.0 7.5	126 131	--	--	--	--	0 .00	52 .85	--	8.4 .24	--	--	17.2	83	32AF	
01/15/74 1010	5001 5050		9.7 82	46.4F 8.0C	6.3 8.0	191 209	--	--	--	--	0 .00	67 1.10	--	18 .51	--	--	17.2	130	22AF	
02/13/74 0940	5001 5050		10.7 92	48.2F 9.0C	7.6 7.8	173 180	--	--	--	--	0 .00	62 1.02	--	14 .39	--	--	16.4	105	48AF	

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
						PERCENT REACTANCE VALUE										MILLIEQUIVALENTS PER LITER					PERCENT REACTANCE VALUE				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		B	F	TDS	TH	TURB					
B9 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL CONTINUED																									
03/20/74 1440	5001 5050	3	9.1 88	57.2F 14.0C	7.8 158	--	--	--	--	--	--	--	12 .34	--	--	--	--	92		29AF					
04/03/74 1350	5001 5050	3	9.7 92	55 F 13 C	7.6 133	--	--	--	--	--	--	--	9.8 .28	--	--	--	--	94		33AF					
04/18/74 1405	5001 5050	3	9.1 90	59 F 15 C	7.5 163	--	--	--	--	--	--	--	13 .37	--	--	--	--	104		27AF					
05/01/74 1320	5001 5050	3	9.5 98	63 F 17 C	7.6 169	--	--	--	--	--	--	--	13 .37	--	--	--	--	105		24AF					
05/15/74 1140	5001 5050	3	9.0 95	64 F 18 C	8.0 167	--	--	--	--	--	--	--	14 .39	--	--	--	--	95		20AF					
06/13/74 1115	5001 5050	3	8.3 91	68 F 20 C	8.1 179	--	--	--	--	--	--	--	17 .48	--	--	--	--	111		25AF					
06/27/74 1110	5001 5050	3	8.2 91	70 F 21 C	7.9 240	--	--	--	--	--	--	--	45 1.27	--	--	--	--	150		26AF					
07/11/74 0930	5001 5050	3	7.5 84	70 F 21 C	7.7 918	--	--	--	K	--	--	--	222 6.26	--	--	--	--	508		26AF					
07/25/74 0950	5001 5050	3	7.0 82	75 F 24 C	7.6 926	--	--	--	--	0 .00	62 1.02	--	246 6.94	--	--	--	--	547		33AF					
08/14/74 1430	5001 5050	3	7.7 87	72 F 22 C	7.7 731	--	--	--	--	0 .00	64 1.05	--	170 4.79	--	--	--	--	391		33AF					
08/28/74 1410	5001 5050	3	8.0 92	73.4F 23.0C	7.9 510	--	--	--	--	0 .00	66 1.08	--	123 3.47	--	--	--	--	277		30AF					
09/11/74 1440	5001 5050	3	8.1 92	72 F 22 C	8.0 218	--	--	--	--	0 .00	68 1.11	--	24 .68	--	--	--	--	125		20AF					
09/25/74 1300	5001 5050	3	8.6 94	68 F 20 C	8.0 183	--	--	--	--	0 .00	70 1.15	--	16 .45	--	--	--	--	110		20AF					
B9 D 801.3 127.9 STOCKTON SHIP CHANNEL AT LIGHT 18																									
10/09/73 0720	5050 5050	3	4.6 49	66 F 19 C	407	--	--	--	--	--	--	--	--	--	--	--	--			21AF					
10/09/73 0721	5050 5050	32	4.5 48	66 F 19 C	532	--	--	--	--	--	--	--	--	--	--	--	--			18AF					
10/18/73 0655	5050 5050	3	4.2 44	64.4F 18.0C	463	--	--	--	--	--	--	--	--	--	--	--	--			12AF					
10/18/73 0656	5050 5050	22	4.2 44	64.4F 18.0C	456	--	--	--	--	--	--	--	--	--	--	--	--			15AF					
10/26/73 0805	5050 5050	3	6.0 62	63 F 17 C	338	--	--	--	--	--	--	--	--	--	--	--	--			15AF					
10/26/73 0806	5050 5050	58	5.8 60	63 F 17 C	314	--	--	--	--	--	--	--	--	--	--	--	--			20AF					
11/15/73 1210	5050 5050	3	7.4 72	57 F 14 C	258	--	--	--	--	--	--	--	--	--	--	--	--			12AF					
11/15/73 1211	5050 5050	31	7.4 72	57 F 14 C	271	--	--	--	--	--	--	--	--	--	--	--	--			18AF					
12/13/73 1210	5050 5050	3	8.4 74	50 F 10 C	317	--	--	--	--	--	--	--	--	--	--	--	--			19AF					
12/13/73 1211	5050 5050	34	8.4 74	50 F 10 C	323	--	--	--	--	--	--	--	--	--	--	--	--			20AF					
B9 D 801.6 145.2 SAN JOAQUIN RIVER AT ANTIOCH BRIDGE (AT LIGHT 12)																									
10/02/73 1015	5001 5050	3	7.7 86	69.8F 21.0C	7.7 480 8.0 456	--	--	--	--	0 .00	86 1.41	--	78 2.20	--	--	--	--	245		19AF					
10/30/73 0830	5001 5050	3	8.4 88	64.4F 18.0C	7.5 219 7.7 291	--	--	--	--	0 .00	68 1.11	--	44 1.24	--	--	--	--	171		17AF					
12/04/73 1200	5001 5050	3	9.4 85	51.8F 11.0C	7.1 120 7.5 141	--	--	--	--	0 .00	52 .85	--	12 .34	--	--	--	--			20AF					



TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. U DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER								
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS	TH	TURB	SAR		
B9 D 801.6 145.2 SAN JOAQUIN RIVER AT ANTIOCH BRIDGE (AT LIGHT 12) CONTINUED																						
01/15/74	5001		10.0	46.4F	7.4	220	--	--	--	--	0	64	--	21	--	--	--		17AF			
1045	5050	3	84	8.0C	7.6	226					.00	1.05		.59			17.2					
02/13/74	5001		10.3	48.2F	7.5	194	--	--	--	--	0	61	--	19	--	--	--	42AF				
1015	5050	3	89	9.0C	7.9	198					.00	1.00		.54			16.2					
B9 D 801.9 143.2 SAN JOAQUIN RIVER AT BLIND POINT																						
10/11/73	5050					237	--	--	--	--	--	--	--	26	--	--	--					
1010	5050					241								.73			--					
11/02/73	5050			62.0F		205	--	--	--	--	--	--	--	22	--	--	--					
1100	5050			16.7C		208								.62			--					
11/23/73	5050			51.0F		129	--	--	--	--	--	--	--	8.1	--	--	--					
1030	5050			10.5C		131								.23			--					
12/20/73	5050			50.0F		167	--	--	--	--	--	--	--	15	--	--	--					
1155	5050			10.0C		173								.42			--					
01/03/74	5050			47.0F		220	--	--	--	--	--	--	--	20	--	--	--					
1255	5050			8.3C		212								.56			--					
01/30/74	5050			48.0F		219	--	--	--	--	--	--	--	21	--	--	--					
1055	5050			8.9C		220								.59			--					
02/14/74	5050			49.0F		213	--	--	--	--	--	--	--	22	--	--	--					
1055	5050			9.4C		219								.62			--					
02/21/74	5050			52.0F		191	--	--	--	--	--	--	--	18	--	--	--					
1015	5050			11.1C		200								.51			--					
03/14/74	5050			53.0F		163	--	--	--	--	--	--	--	13	--	--	--					
1010	5050			11.7C		159								.37			--					
04/04/74	5050			55.0F		129	--	--	--	--	--	--	--	9.6	--	--	--					
1055	5050			12.8C		136								.27			--					
B9 D 801.9 151.4 NEW YORK SLOUGH NEAR PITTSBURG POINT																						
10/31/73	5050		8.2	62.6F	7.4	641	--	--	--	--	0	69	--	140	--	--	--	28AF				
0925	5050	3	84	17.0C	7.7	671					.00	1.13		3.95			16.6					
B9 D 802.6 125.1 DISAPPOINTMENT SLOUGH AT BISHOP CUT																						
03/25/74	5001		7.2	57 F	7.1	205	--	--	--	--	0	68	--	21	--	--	--	27AF				
0830	5050	3	70	14 C						.00	1.11			.59			16.6					
04/09/74	5001		8.6	59 F	7.5	262	--	--	--	--	0	76	--	30	--	--	--	19AF				
0905	5050	3	85	15 C						.00	1.25			.85			15.6					
04/24/74	5001		8.9	61 F	7.3	185	--	--	--	--	0	64	--	19	--	--	--	25AF				
0755	5050	3	90	16 C						.00	1.05			.54			12.6					
05/08/74	5001		6.6	68 F	7.5	182	--	--	--	--	0	64	--	18	--	--	--	22AF				
0750	5050	3	72	20 C						.00	1.05			.51			11.2					
05/22/74	5001		7.3	63 F	7.3	150	--	--	--	--	0	60	--	13	--	--	--	27AF				
0710	5050	3	75	17 C						.00	.98			.37			12.0					
06/05/74	5001		6.4	72 F	6.8	152	--	--	--	--	0	20	--	11	--	--	--	27AF				
0650	5050	3	73	22 C						.00	.33			.31			12.6					
06/24/74	5001		6.5	73 F	7.1	165	--	--	--	--	0	58	--	13	--	--	--	33AF				
1030	5050	3	75	23 C						.00	.95			.37			14.4					
07/08/74	5001		6.2	72 F	7.9	170	--	--	--	--	0	66	--	14	--	--	--	32AF				
0950	5050	3	70	22 C						.00	1.08			.39			15.3					
07/22/74	5001		6.3	77 F	7.4	180	--	--	--	--	0	66	--	14	--	--	--	24AF				
1025	5050	3	76	25 C						.00	1.08			.39			15.2					
08/06/74	5001		7.0	77 F	7.2	182	--	--	--	--	0	68	--	16	--	--	--	22AF				
0915	5050	3	84	25 C						.00	1.11			.45			14.0					
08/22/74	5001		7.7	75.2F	7.6	195	--	--	--	--	0	72	--	8.0	--	--	--	21AF				
1105	5050	3	91	24.0C						.00	1.18			.23			12.8					
09/04/74	5001		7.1	72 F	7.6	190	--	--	--	--	0	76	--	14	--	--	--	22AF				
0900	5050	3	81	22 C						.00	1.25			.39			12.4					
09/18/74	5001		7.3	72 F	7.3	150	--	--	--	--	0	84	--	12	--	--	--	19AF				
0835	5050	3	83	24 C						.00	1.38			.34			12.2					

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TURB SAR	
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM		TH NCH
89 D 802.6 136.8 FRANKS TRACT NEAR RUSSOS LANDING																			
10/02/73 1235	5001 5050		7.9 81	62.6F 17.0C	7.8 8.2	223 214	--	--	--	--	0 .00	84 1.38	--	17 .48	--	-- 18.0		14AF	
		3																	
10/30/73 1055	5001 5050		9.3 94	60.8F 16.0C	6.7 7.6	157 160	--	--	--	--	0 .00	65 1.07	--	11 .31	--	-- 16.6		12AF	
		3																	
12/04/73 1400	5001 5050		9.6 85	50.0F 10.0C	7.1 7.9	131 134	--	--	--	--	0 .00	52 .85	--	10 .28	--	-- 17.0		17AF	
		3																	
01/15/74 1310	5001 5050		10.0 84	46.4F 8.0C	7.4 7.7	292 310	--	--	--	--	0 .00	70 1.15	--	34 .96	--	-- 17.0		16AF	
		3																	
02/13/74 1240	5001 5050		10.6 91	48.2F 9.0C	7.5 8.0	224 230	--	--	--	--	0 .00	61 1.00	--	23 .65	--	-- 15.8		32AF	
		3																	
03/19/74 1610	5001 5050		9.1 88	57.2F 14.0C	7.7	155	--	--	--	--	--	--	--	13 .37	--	-- 16.2		26AF	
		3																	
04/03/74 1515	5001 5050		9.2 89	57 F 14 C	7.5	147	--	--	--	--	--	--	--	13 .37	--	-- 16.2		18AF	
		3																	
04/17/74 1505	5001 5050		9.6 97	61 F 16 C	7.7	189	--	--	--	--	--	--	--	19 .54	--	-- 15.6		21AF	
		3																	
04/30/74 1335	5001 5050		9.6 101	64 F 18 C	7.7	162	--	--	--	--	--	--	--	13 .37	--	-- 15.8		20AF	
		3																	
05/14/74 1225	5001 5050		9.2 99	66 F 19 C	7.8	150	--	--	--	--	--	--	--	11 .31	--	-- 14.0		27AF	
		3																	
06/12/74 1155	5001 5050		8.6 94	68 F 20 C	8.1	142	--	--	--	--	--	--	--	8.5 .24	--	-- 15.0		27AF	
		3																	
06/26/74 1140	5001 5050		7.9 88	70 F 21 C	8.1	129	--	--	--	--	--	--	--	10 .28	--	-- 14.8		25AF	
		3																	
07/10/74 0935	5001 5050		7.8 87	70 F 21 C	7.8	202	--	--	--	--	--	--	--	25 .71	--	-- 14.4		20AF	
		3																	
07/24/74 1005	5001 5050		7.6 89	75 F 24 C	7.7	247	--	--	--	--	0 .00	62 1.02	--	36 1.02	--	-- 15.8		22AF	
		3																	
08/13/74 1515	5001 5050		8.0 91	72 F 22 C	7.8	370	--	--	--	--	0 .00	62 1.02	--	74 2.09	--	-- 15.3		26AF	
		3																	
08/27/74 1510	5001 5050		8.5 98	73 F 23 C	8.0	217	--	--	--	--	0 .00	62 1.02	--	28 .79	--	-- 16.2		24AF	
		3																	
09/12/74 1610	5001 5050		9.0 104	73 F 23 C	8.0	161	--	--	--	--	0 .00	68 1.11	--	11 .31	--	-- 14.4		18AF	
		3																	
09/24/74 1335	5001 5050		9.3 104	70 F 21 C	8.1	157	--	--	--	--	0 .00	68 1.11	--	9.4 .27	--	-- 14.4		15AF	
		3																	
89 D 802.6 147.6 SHERMAN LAKE NEAR ANTIOCH																			
10/04/73 1055	5001 5050		7.1 78	68.0F 20.0C	7.6 8.0	369 424	--	--	--	--	0 .00	82 1.34	--	68 1.92	--	-- 18.2		34AF	
		3																	
11/01/73 0920	5001 5050		8.1 83	62.6F 17.0C	7.4 8.0	308 353	--	--	--	--	0 .00	67 1.10	--	57 1.61	--	-- 16.6		23AF	
		3																	
12/06/73 1245	5001 5050		9.7 86	50.0F 10.0C	7.0 7.9	126 130	--	--	--	--	0 .00	58 .95	--	5.7 .16	--	-- 18.2		62AF	
		3																	
01/17/74 1210	5001 5050		10.8 95	50.0F 10.0C	7.5 7.7	143 150	--	--	--	--	0 .00	61 1.00	--	10 .28	--	-- 17.2		22AF	
		3																	
02/14/74 1145	5001 5050		10.5 91	48.2F 9.0C	7.5 7.7	142 144	--	--	--	--	0 .00	65 1.07	--	6.9 .19	--	-- 16.8		42AF	
		3																	
03/21/74 1425	5001 5050		9.4 89	55.4F 13.0C	7.7	133	--	--	--	--	--	--	--	6.4 .18	--	-- 16.8		31AF	
		3																	
04/02/74 1145	5001 5050		10.2 92	52 F 11 C	7.7	110	--	--	--	--	--	--	--	5.4 .15	--	-- 13.6		52AF	
		3																	
04/17/74 1210	5001 5050		9.6 95	59 F 15 C	7.5	149	--	--	--	--	--	--	--	5.9 .17	--	-- 17.2		37AF	
		3																	
04/30/74 1100	5001 5050		9.2 93	61 F 16 C	7.5	161	--	--	--	--	--	--	--	10 .28	--	-- 16.2		25AF	
		3																	

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	MO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR						
89 D 802.6 147.6 SHERMAN LAKE NEAR ANTIOCH						CONTINUED																			
05/14/74 0955	5001 5050	3	9.0 95	64 18	F C	7.5 141	--	--	--	--	--	--	10 .28	--	--	--	--	15.8	--	--	27AF				
06/12/74 0905	5001 5050	3	8.3 91	68 20	F C	8.2 158	--	--	--	--	--	--	11 .31	--	--	--	--	14.6	--	--	33AF				
06/26/74 0925	5001 5050	3	7.8 85	68 20	F C	7.9 245	--	--	--	--	--	--	40 1.13	--	--	--	--	14.4	--	--	34AF				
07/10/74 0740	5001 5050	3	7.6 83	68 20	F C	7.8 760	--	--	--	--	--	--	192 5.41	--	--	--	--	14.4	--	--	33AF				
07/24/74 0805	5001 5050	3	7.4 86	73 23	F C	7.7 918	--	--	--	--	0 .00	62 1.02	--	231 6.51	--	--	--	15.4	--	--	34AF				
08/13/74 1320	5001 5050	3	7.7 86	70 21	F C	7.8 685	--	--	--	--	0 .00	64 1.05	--	166 4.68	--	--	--	15.3	--	--	33AF				
08/27/74 1325	5001 5050	3	8.0 91	72 22	F C	7.7 400	--	--	--	--	0 .00	66 1.08	--	89 2.51	--	--	--	15.2	--	--	30AF				
09/12/74 1330	5001 5050	3	8.3 94	72 22	F C	7.9 196	--	--	--	--	0 .00	70 1.15	--	22 .62	--	--	--	14.2	--	--	29AF				
09/24/74 1150	5001 5050	3	8.5 93	66 20	F C	7.9 178	--	--	--	--	0 .00	70 1.15	--	14 .39	--	--	--	14.4	--	--	22AF				
89 D 802.7 123.3 DISAPPOINTMENT SLOUGH NEAR LODI																									
10/15/73 1100	5001 5050	3	7.6 81	66 19	F C	7.4 158 155	--	--	--	--	0 .00	59 .97	--	10 .28	--	--	--	14.6	--	--	33AF				
11/13/73 1130	5001 5050	3	6.7 65	57 14	F C	7.7 241 243	--	--	--	--	0 .00	77 1.26	--	23 .65	--	--	--	12.2	--	--	31AF				
12/11/73 1055	5001 5050	3	8.3 70	46 8	F C	7.4 265 258	--	--	--	--	0 .00	80 1.31	--	28 .79	--	--	--	18.8	--	--	29AF				
01/09/74 0925	5001 5050	3	8.4 66	41 5	F C	6.8 150 144	--	--	--	--	0 .00	54 .89	--	9.8 .28	--	--	--	17.4	--	--	75AF				
02/06/74 0830	5001 5050	3	8.9 73	45 7	F C	7.1 297 323	--	--	--	--	16 .53	70 1.15	--	37 1.04	--	--	--	20.0	--	--	20AF				
89 D 802.9 132.0 SAN JOAQUIN RIVER NEAR MOUTH OF MIDDLE RIVER																									
03/25/74 0845	5001 5050	3	9.5 90	55 13	F C	7.2 139	--	--	--	--	--	--	11 .31	--	--	--	--	16.6	--	--	20AF				
04/09/74 0710	5001 5050	3	8.9 84	55 13	F C	6.9 191	--	--	--	--	--	--	20 .56	--	--	--	--	15.2	--	--	17AF				
04/25/74 0710	5001 5050	3	8.8 87	59 15	F C	7.0 170	--	--	--	--	--	--	16 .45	--	--	--	--	15.6	--	--	20AF				
05/09/74 0705	5001 5050	3	8.1 87	66 19	F C	7.5 151	--	--	--	--	--	--	14 .39	--	--	--	--	15.6	--	--	20AF				
05/22/74 0635	5001 5050	3	8.3 85	63 17	F C	7.4 144	--	--	--	--	--	--	10 .28	--	--	--	--	15.0	--	--	22AF				
06/05/74 0615	5001 5050	3	7.5 84	70 21	F C	7.3 141	--	--	--	--	--	--	8.0 .23	--	--	--	--	15.2	--	--	19AF				
06/24/74 0930	5001 5050	3	7.0 78	70 21	F C	7.4 133	--	--	--	--	--	--	8.5 .24	--	--	--	--	15.6	--	--	21AF				
07/08/74 0850	5001 5050	3	7.1 81	71.6 22.0	F C	7.5 142	--	--	--	--	--	--	10 .28	--	--	--	--	15.5	--	--	20AF				
07/22/74 0835	5001 5050	3	7.8 90	73 23	F C	7.3 161	--	--	--	--	0 .00	58 .95	--	12 .34	--	--	--	15.0	--	--	17AF				
08/06/74 0800	5001 5050	3	7.9 91	73 23	F C	7.7 192	--	--	--	--	0 .00	60 .98	--	23 .65	--	--	--	15.6	--	--	18AF				
08/22/74 0955	5001 5050	3	7.2 82	72 22	F C	7.5 166	--	--	--	--	0 .00	64 1.05	--	14 .39	--	--	--	16.0	--	--	15AF				
09/05/74 0840	5001 5050	3	8.0 91	72 22	F C	7.7 150	--	--	--	--	0 .00	64 1.05	--	9.4 .27	--	--	--	15.0	--	--	12AF				

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	00 SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					
						CA	MG	NA	K	CO3	MC03	SO4	CL	N03	B	F	TDS SUM	TH NCH	TURB SAR
89 D 802.9 132.0 SAN JOAQUIN RIVER NEAR MOUTH OF MIDDLE RIVER CONTINUED																			
09/18/74 0740	5001 5050		8.1 90	76 21	F C	7.7 158	--	--	--	--	0 .00	72 1.18	--	8.0 .23	--	--	--	14.8	13AF
3																			
89 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT																			
10/02/73 1100	5001 5050		7.8 85	68.0F 20.0C	7.8 8.0	267 254	--	--	--	--	0 .00	82 1.34	--	28 .79	--	--	--	18.0	17AF
3																			
10/30/73 0925	5001 5050		8.6 87	60.8F 16.0C	6.9 7.6	184 182	--	--	--	--	0 .00	66 1.08	--	15 .42	--	--	--	16.6	16AF
3																			
11/12/73 0930	5001 5050			68.0F 20.0C		184	--	--	16 .70	--	--	--	--	17 .48	--	--	--	--	112
12/04/73 1240	5001 5050		9.6 87	51.8F 11.0C	7.1 7.9	132 134	--	--	--	--	0 .00	51 .84	--	9.9 .28	--	--	--	17.2	20AF
3																			
01/15/74 1140	5001 5050		10.0 84	46.4F 8.0C	7.4 7.8	234 236	--	--	--	--	0 .00	64 1.05	--	24 .68	--	--	--	17.2	20AF
3																			
02/13/74 1110	5001 5050		10.6 91	48.2F 9.0C	7.6 8.1	193 200	--	--	--	--	0 .00	60 .98	--	20 .56	--	--	--	16.0	135
3																			
03/19/74 1440	5001 5050		9.0 87	57.2F 14.0C	7.7	150	--	--	--	--	--	--	--	13 .37	--	--	--	16.4	92
3																			
04/03/74 1450	5001 5050		9.7 92	55 F 13 C	7.5	131	--	--	--	--	--	--	--	9.8 .28	--	--	--	15.8	90
3																			
04/18/74 1450	5001 5050		9.0 89	59 F 15 C	7.6	161	--	--	--	--	--	--	--	12 .34	--	--	--	16.0	105
3																			
05/01/74 1410	5001 5050		9.8 101	63 F 17 C	7.7	161	--	--	--	--	--	--	--	13 .37	--	--	--	15.6	100
3																			
05/15/74 1240	5001 5050		9.0 95	64 F 18 C	7.9	139	--	--	--	--	--	--	--	8.8 .25	--	--	--	15.2	89
3																			
06/13/74 1210	5001 5050		8.6 94	68 F 20 C	8.1	136	--	--	--	--	--	--	--	8.5 .24	--	--	--	15.0	97
3																			
06/27/74 1205	5001 5050		8.6 96	70 F 21 C	8.0	128	--	--	--	--	--	--	--	12 .34	--	--	--	14.4	95
3																			
07/10/74 0915	5001 5050		7.6 85	70 F 21 C	7.8	345	--	--	--	--	--	--	--	62 1.75	--	--	--	14.0	189
3																			
07/24/74 0940	5001 5050		7.0 82	75 F 24 C	7.7	480	--	--	--	--	0 .00	62 1.02	--	97 2.74	--	--	--	15.2	258
3																			
08/13/74 1450	5001 5050		7.8 89	72 F 22 C	7.9	544	--	--	--	--	0 .00	64 1.05	--	113 3.19	--	--	--	16.5	287
3																			
08/27/74 1455	5001 5050		8.1 92	72 F 22 C	8.0	355	--	--	--	--	0 .00	66 1.08	--	60 1.69	--	--	--	14.8	192
3																			
09/12/74 1635	5001 5050		8.7 99	72 F 22 C	8.0	180	--	--	--	--	0 .00	68 1.11	--	15 .42	--	--	--	13.6	122
3																			
09/24/74 1315	5001 5050		8.9 97	68 F 20 C	8.0	169	--	--	--	--	0 .00	70 1.15	--	12 .34	--	--	--	14.4	111
3																			
89 D 803.7 136.1 FALSE RIVER AT WEBB PUMP																			
11/15/73 1330	5001 5050			57.2F 14.0C		145	--	--	11 .48	--	--	--	--	10 .28	--	--	--	--	93
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO																			
10/04/73 1040	5001 5050		7.7 82	66.2F 19.0C	7.8 8.2	457 440	--	--	--	--	0 .00	81 1.33	--	83 2.34	--	--	--	18.2	238
3																			
11/01/73 0910	5001 5050		8.2 84	62.6F 17.0C	7.9 7.9	360 406	--	--	--	--	0 .00	67 1.10	--	68 1.92	--	--	--	16.8	210
3																			
12/06/73 1205	5001 5050		9.8 87	50.0F 10.0C	7.0 7.9	127 133	--	--	--	--	0 .00	58 .95	--	7.5 .21	--	--	--	--	88
3																			
01/17/74 1145	5001 5050		10.3 89	48.2F 9.0C	7.6 7.8	133 136	--	--	--	--	0 .00	59 .97	--	7.3 .21	--	--	--	17.4	84
3																			
02/14/74 1010	5001 5050		10.3 89	48.2F 9.0C	7.6 7.7	148 162	--	--	--	--	0 .00	68 1.11	--	8.9 .25	--	--	--	16.8	97
3																			

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	O.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3											
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO CONTINUED																									
03/21/74 1405	5001 5050	3	8.7 82	55.4F 13.0C	7.8 143	--	--	--	--	--	--	--	7.4 .21	--	--	--	82					27AF			
04/02/74 1120	5001 5050	3	10.1 93	54 F 12 C	7.7 129	--	--	--	--	--	--	--	6.9 .19	--	--	--	99					64AF			
04/17/74 1145	5001 5050	3	9.3 92	59 F 15 C	7.3 143	--	--	--	--	--	--	--	8.5 .24	--	--	--	99					32AF			
04/30/74 1035	5001 5050	3	9.2 93	61 F 16 C	7.5 162	--	--	--	--	--	--	--	10 .28	--	--	--	107					21AF			
05/14/74 0940	5001 5050	3	9.0 95	64 F 18 C	7.6 159	--	--	--	--	--	--	--	13 .37	--	--	--	98					20AF			
06/12/74 0830	5001 5050	3	8.3 91	68 F 20 C	8.1 178	--	--	--	--	--	--	--	16 .45	--	--	--	112					25AF			
06/26/74 0850	5001 5050	3	7.0 76	68 F 20 C	7.9 228	--	--	--	--	--	--	--	38 1.07	--	--	--	137					26AF			
07/10/74 0720	5001 5050	3	7.2 79	68 F 20 C	7.9 1150	--	--	--	--	--	--	--	325 9.17	--	--	--	735					30AF			
07/24/74 0745	5001 5050	3	7.6 88	73 F 23 C	7.7 1240	--	--	--	--	0 .00	62 1.02	--	330 9.31	--	--	--	713					33AF			
08/14/74 1405	5001 5050	3	7.8 87	70 F 21 C	7.9 572	--	--	--	--	0 .00	64 1.05	--	116 3.27	--	--	--	303					28AF			
08/27/74 1310	5001 5050	3	7.3 81	70 F 21 C	7.7 402	--	--	--	--	0 .00	64 1.05	--	75 2.12	--	--	--	223					29AF			
09/12/74 1315	5001 5050	3	8.1 92	72 F 22 C	7.9 208	--	--	--	--	0 .00	70 1.15	--	24 .68	--	--	--	118					24AF			
09/24/74 1120	5001 5050	3	8.6 92	66 F 19 C	7.8 163	--	--	--	--	0 .00	68 1.11	--	11 .31	--	--	--	103					18AF			
89 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATO POINT																									
10/02/73 1205	5001 5050	3	8.3 87	64.4F 18.0C	7.8 180 170	--	--	--	--	0 .00	73 1.20	--	9.8 .28	--	--	--	107					10AF			
10/30/73 1030	5001 5050	3	8.8 89	60.8F 16.0C	6.8 163 161	--	--	--	--	0 .00	64 1.05	--	10 .28	--	--	--	106					10AF			
12/04/73 1335	5001 5050	3	9.6 87	51.8F 11.0C	7.0 120 121	--	--	--	--	0 .00	49 .80	--	7.5 .21	--	--	--	79					26AF			
01/15/74 1235	5001 5050	3	10.2 86	46.4F 8.0C	7.5 179 184	--	--	--	--	0 .00	61 1.00	--	15 .42	--	--	--	118					16AF			
02/13/74 1205	5001 5050	3	10.9 94	48.2F 9.0C	7.5 164 169	--	--	--	--	0 .00	59 .97	--	15 .42	--	--	--	106					36AF			
03/19/74 1545	5001 5050	3	9.5 92	57.2F 14.0C	7.7 128	--	--	--	--	--	--	--	8.8 .25	--	--	--	83					23AF			
04/02/74 1420	5001 5050	3	9.6 89	54 F 12 C	7.6 124	--	--	--	--	--	--	--	8.9 .25	--	--	--	95					23AF			
04/17/74 1445	5001 5050	3	9.5 94	59 F 15 C	7.6 146	--	--	--	--	--	--	--	9.9 .28	--	--	--	102					23AF			
04/30/74 1315	5001 5050	3	9.1 92	61 F 16 C	7.3 145	--	--	--	--	--	--	--	9.3 .26	--	--	--	94					18AF			
05/14/74 1205	5001 5050	3	8.7 91	64 F 18 C	7.3 133	--	--	--	--	--	--	--	8.0 .23	--	--	--	88					20AF			
06/12/74 1135	5001 5050	3	8.3 91	68 F 20 C	7.9 139	--	--	--	--	--	--	--	8.5 .24	--	--	--	94					20AF			
06/26/74 1125	5001 5050	3	7.5 84	70 F 21 C	7.8 127	--	--	--	--	--	--	--	7.6 .21	--	--	--	87					17AF			
07/10/74 1000	5001 5050	3	7.8 87	70 F 21 C	7.7 143	--	--	--	--	--	--	--	9.9 .28	--	--	--	108					17AF			
07/24/74 1025	5001 5050	3	7.6 89	75 F 24 C	7.7 159	--	--	--	--	0 .00	58 .95	--	14 .39	--	--	--	96					17AF			

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	S.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					TURB SAR
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3		B SI02	F	TDS SUM	TH NCH		
89 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATO POINT CONTINUED																					
08/13/74 1530	5001 5050		7.9 90	72 22	F C	7.8	199	--	--	--	0 .00	62 1.02	-- .68	24 --	-- --	-- 16.2	-- --	115			17AF
08/27/74 1530	5001 5050		8.2 93	72 22	F C	7.8	154	--	--	--	0 .00	64 1.05	-- .37	13 --	-- --	-- 15.8	-- --	86			13AF
09/12/74 1550	5001 5050		8.3 94	72 22	F C	7.8	155	--	--	--	0 .00	68 1.11	-- .24	8.6 --	-- --	-- 16.0	-- --	108			13AF
09/24/74 1350	5001 5050		8.3 91	68 20	F C	7.8	157	--	--	--	0 .00	66 1.08	-- .25	9.0 --	-- --	-- 15.2	-- --	97			10AF
89 D 805.0 128.1 WHITE SLOUGH AT CORREIA FERRY (SITE)																					
03/25/74 0915	5001 5050		8.8 87	59 15	F C	7.2	107	--	--	--	0 .00	52 .85	-- .22	7.9 --	-- --	-- 17.2	-- --				28AF
04/09/74 0810	5001 5050		9.6 91	55 13	F C	7.2	82	--	--	--	0 .00	40 .66	-- .28	9.9 --	-- --	-- 15.0	-- --				15AF
04/24/74 0700	5001 5050		9.1 86	55 13	F C	7.4	120	--	--	--	0 .00	48 .79	-- .24	8.6 --	-- --	-- 16.6	-- --				17AF
05/08/74 0700	5001 5050		8.2 86	64 18	F C	7.4	115	--	--	--	0 .00	46 .75	-- .22	7.8 --	-- --	-- 15.4	-- --				15AF
05/22/74 0620	5001 5050		7.8 79	61 16	F C	7.2	120	--	--	--	0 .00	52 .85	-- .23	8.3 --	-- --	-- 14.8	-- --				16AF
06/05/74 0600	5001 5050		7.7 82	66 19	F C	7.0	86	--	--	--	0 .00	38 .62	-- .17	6.1 --	-- --	-- 13.8	-- --				14AF
06/24/74 0930	5001 5050		7.9 86	68 20	F C	7.2	120	--	--	--	0 .00	46 .75	-- .27	9.4 --	-- --	-- 15.8	-- --				17AF
07/08/74 0900	5001 5050		7.1 81	72 22	F C	7.5	132	--	--	--	0 .00	58 .95	-- .27	9.5 --	-- --	-- 14.0	-- --				18AF
07/22/74 0920	5001 5050		7.2 83	73 23	F C	7.5	145	--	--	--	0 .00	60 .98	-- .28	10 --	-- --	-- 16.6	-- --				15AF
08/06/74 0830	5001 5050		7.1 82	73 23	F C	7.1	139	--	--	--	0 .00	66 1.08	-- .28	9.9 --	-- --	-- 16.0	-- --				15AF
08/22/74 1015	5001 5050		7.9 90	71.6F 22.0C	7.1	132	--	--	--	--	0 .00	58 .95	-- .28	9.9 --	-- --	-- 16.0	-- --				13AF
09/04/74 0810	5001 5050		7.9 88	70 21	F C	7.5	141	--	--	--	0 .00	62 1.02	-- .25	9.0 --	-- --	-- 16.0	-- --				11AF
09/18/74 0755	5001 5050		7.7 84	68 20	F C	7.4	142	--	--	--	0 .00	62 1.02	-- .27	9.4 --	-- --	-- 16.2	-- --				11AF
89 D 805.1 144.3 SACRAMENTO RIVER AT EMMATON																					
10/04/73 1120	5001 5050		8.3 89	66.2F 19.0C	7.7 8.0	295 310	--	--	--	--	0 .00	80 1.31	-- 1.27	45 --	-- --	-- 18.4	-- --	182			23AF
11/01/73 0945	5001 5050		8.7 88	60.8F 16.0C	7.3 7.9	220 229	--	--	--	--	0 .00	65 1.07	-- .79	28 --	-- --	-- 17.0	-- --	133			18AF
11/13/73 1350	5001 5050			57.2F 14.0C		155	--	--	11 .48	--	--	--	--	9.6 .27	-- --	-- --	-- --	96			
12/06/73 1315	5001 5050		9.8 87	50.0F 10.0C	7.0 7.9	115 117	--	--	--	--	0 .00	53 .87	-- .13	4.7 --	-- --	-- 17.6	-- --	78			54AF
01/17/74 1245	5001 5050		10.5 93	50.0F 10.0C	7.6 7.6	140 143	--	--	--	--	0 .00	58 .95	-- .26	9.2 --	-- --	-- 16.8	-- --	73			21AF
02/14/74 1120	5001 5050		10.5 91	48.2F 9.0C	7.5 7.5	142 144	--	--	--	--	0 .00	64 1.05	-- .21	7.4 --	-- --	-- 17.0	-- --	91			44AF
03/21/74 1455	5001 5050		9.7 92	55.4F 13.0C	7.8	142	--	--	--	--	--	--	--	6.9 .19	-- --	-- 16.6	-- --	81			29AF
04/02/74 1210	5001 5050		9.8 89	52 11	F C	7.6	117	--	--	--	--	--	--	6.1 .17	-- --	-- 14.2	-- --	80			80AF
04/17/74 1240	5001 5050		9.6 95	59 15	F C	7.6	134	--	--	--	--	--	--	5.4 .15	-- --	-- 17.0	-- --	91			32AF

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M.F. O DEPTH	DO SAT	TEMP	FIELD		MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				TURNS SAR	
					LABORATORY PH	EC	PERCENT				REACTANTS				PERCENT									
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH	NCM				
89 D 805.1			144.3	SACRAMENTO RIVER AT EMMATON															CONTINUED					
04/30/74 1125	5001 5050		9.2 91	59 15	F C	7.5	145	--	--	--	--	--	--	--	7.6 .21	--	--	16.2	93	21AF				
		3																						
05/14/74 1015	5001 5050		9.1 94	63 17	F C	7.5	131	--	--	--	--	--	--	--	6.9 .19	--	--	16.4	83	20AF				
		3																						
06/12/74 0940	5001 5050		8.4 90	66 19	F C	8.1	143	--	--	--	--	--	--	--	7.1 .20	--	--	16.0	91	25AF				
		3																						
06/26/74 0945	5001 5050		8.2 90	68 20	F C	7.9	167	--	--	--	--	--	--	--	18 .51	--	--	15.0	105	21AF				
		3																						
07/10/74 0800	5001 5050		7.9 88	70 21	F C	7.9	249	--	--	--	--	--	--	--	38 1.07	--	--	14.6	146	22AF				
		3																						
07/24/74 0835	5001 5050		7.4 86	73 23	F C	7.7	273	--	--	--	--	0 .00	62 1.02	--	42 1.18	--	--	16.2	152	21AF				
		3																						
08/13/74 1340	5001 5050		7.9 88	70 21	F C	7.8	208	--	--	--	--	0 .00	62 1.02	--	25 .71	--	--	15.2	120	18AF				
		3																						
08/27/74 1345	5001 5050		8.3 92	70 21	F C	7.7	207	--	--	--	--	0 .00	64 1.05	--	24 .68	--	--	16.0	120	18AF				
		3																						
09/12/74 1400	5001 5050		8.5 95	70 21	F C	7.9	163	--	--	--	--	0 .00	72 1.18	--	12 .34	--	--	16.2	106	15AF				
		3																						
09/24/74 1210	5001 5050		8.7 93	66 19	F C	7.9	151	--	--	--	--	0 .00	66 1.08	--	8.5 .24	--	--	16.4	99	14AF				
		3																						
89 D 805.2			124.1	WHITE SLOUGH AT RIO BLANCO TRACT																				
10/15/73 1015	5001 5050		1.3 14	68 20	F C	7.4 7.3	522 539	--	--	--	--	0 .00	164 2.69	--	54 1.52	--	--	48.0		7AF				
		3																						
02/06/74 0740	5001 5050		3.7 30	45 7	F C	7.2 8.7	775 721	--	--	--	--	16 .53	183 3.00	--	81 2.28	--	--	47.4		17AF				
		3																						
89 D 805.2			126.0	WHITE SLOUGH NEAR LODI																				
11/14/73 1020	5001 5050		7.2 68	55 13	F C	7.6 7.8	188 190	--	--	--	--	0 .00	69 1.13	--	17 .48	--	--	17.8		16AF				
		3																						
12/11/73 0940	5001 5050		9.0 74	45 7	F C	6.9 7.6	181 174	--	--	--	--	0 .00	61 1.00	--	15 .42	--	--	17.0		22AF				
		3																						
89 D 805.8			140.1	SAN JOAQUIN RIVER AT TWITCHELL ISLAND																				
10/02/73 1120	5001 5050		68.0F 20.0C	7.8 8.0	238 233	--	--	--	--	0 .00	82 1.34	--	22 .62	--	--	--	18.2	106	15AF					
		3																						
10/30/73 0950	5001 5050		8.8 89	60.8F 16.0C	6.9 7.7	163 159	--	--	--	--	0 .00	65 1.07	--	12 .34	--	--	16.6	105	14AF					
		3																						
11/14/73 0945	5001 5050		58.1F 14.5C		160	--	--	12 .52	--	--	--	--	11 .31	--	--	--	101		27AF					
		3																						
12/04/73 1305	5001 5050		9.6 87	51.8F 11.0C	7.1 7.8	124 125	--	--	--	--	0 .00	51 .84	--	8.3 .23	--	--	17.6	79	24AF					
		3																						
01/15/74 1200	5001 5050		10.3 87	46.4F 8.0C	7.5 7.6	166 170	--	--	--	--	0 .00	62 1.02	--	13 .37	--	--	17.6	102	17AF					
		3																						
02/13/74 1135	5001 5050		10.7 92	48.2F 9.0C	7.5 8.0	153 158	--	--	--	--	0 .00	59 .97	--	10 .28	--	--	16.6	97	44AF					
		3																						
03/19/74 1505	5001 5050		9.4 89	55.4F 13.0C	7.7	141	--	--	--	--	--	--	9.8 .28	--	--	--	16.4	91	27AF					
		3																						
04/02/74 1340	5001 5050		9.6 89	54 12	F C	7.7	127	--	--	--	--	--	9.3 .26	--	--	--	16.0	96	35AF					
		3																						
04/17/74 1410	5001 5050		9.5 94	59 15	F C	7.6	153	--	--	--	--	--	12 .34	--	--	--	16.2	104	24AF					
		3																						
04/30/74 1235	5001 5050		9.4 95	61 16	F C	7.5	153	--	--	--	--	--	10 .28	--	--	--	16.0	99	19AF					
		3																						
05/14/74 1120	5001 5050		9.0 95	64 18	F C	7.4	135	--	--	--	--	--	8.6 .24	--	--	--	15.8	84	18AF					
		3																						
06/12/74 1100	5001 5050		8.3 91	66 20	F C	8.1	140	--	--	--	--	--	8.0 .23	--	--	--	16.0	94	18AF					
		3																						

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				TURB SAR						
						CA		MG		NA		K		CO3		MCO3		SO4		CL		NO3			PERCENT REACTANCE VALUE		B	F	TDS SUM	TH NCH
89 D 805.8 140.1 SAN JOAQUIN RIVER AT TWITCHELL ISLAND						CONTINUED																								
06/26/74 1045	5001 5050		7.8 85	68 20	F C	8.0	133	--	--	--	--	--	--	--	--	9.0 .25	--	--	14.8	86		20AF								
07/10/74 1030	5001 5050		7.8 87	70 21	F C	7.9	230	--	--	--	--	--	--	--	--	32 .90	--	--	14.4	132		17AF								
07/24/74 1105	5001 5050		7.5 88	75 24	F C	7.7	277	--	--	--	--	0 .00	62 1.02	--	48 1.35	--	--	15.8	154		19AF									
08/13/74 1610	5001 5050		7.9 90	72 22	F C	7.9	423	--	--	--	--	0 .00	64 1.05	--	85 2.40	--	--	7.2	234		20AF									
08/27/74 1610	5001 5050		8.5 96	72 22	F C	8.0	292	--	--	--	--	0 .00	64 1.05	--	47 1.33	--	--	14.6	156		18AF									
09/12/74 1515	5001 5050		8.9 101	72 22	F C	8.0	166	--	--	--	--	0 .00	68 1.11	--	12 .34	--	--	14.4	97		17AF									
09/24/74 1425	5001 5050		8.9 97	68 20	F C	8.0	157	--	--	--	--	0 .00	68 1.11	--	9.0 .25	--	--	15.0	102		12AF									
89 D 805.9 135.2 SAN JOAQUIN RIVER NEAR SAN ANDREAS LANDING																														
03/19/74 1530	5001 5050		9.3 90	57.2F 14.0C	7.7	127	--	--	--	--	--	--	--	--	7.8 .22	--	--	16.8	79		25AF									
03/26/74 1105	5001 5050		9.3 88	55 13	F C	7.6	116	--	--	--	--	--	--	--	5.9 .17	--	--	17.0	80		24AF									
04/02/74 1405	5001 5050		9.4 87	54 12	F C	7.7	122	--	--	--	--	--	--	--	8.8 .25	--	--	16.0	89		25AF									
04/10/74 0915	5001 5050		9.5 90	55 13	F C	7.3	125	--	--	--	--	--	--	--	11 .31	--	--	15.0	84		23AF									
04/17/74 1435	5001 5050		9.2 91	59 15	F C	7.6	143	--	--	--	--	--	--	--	11 .31	--	--	16.4	100		23AF									
04/24/74 0830	5001 5050		8.4 81	57 14	F C	7.2	141	--	--	--	--	--	--	--	9.8 .28	--	--	16.4	96		20AF									
04/30/74 1300	5001 5050		9.4 95	61 16	F C	7.4	146	--	--	--	--	--	--	--	10 .28	--	--	16.0	94		18AF									
05/08/74 0745	5001 5050		9.3 96	63 17	F C	7.5	139	--	--	--	--	--	--	--	8.8 .25	--	--	16.0	87		20AF									
05/14/74 1155	5001 5050		8.4 88	64 18	F C	7.3	127	--	--	--	--	--	--	--	7.9 .22	--	--	16.0	82		19AF									
05/23/74 0845	5001 5050		8.8 91	63 17	F C	7.4	134	--	--	--	--	--	--	--	8.9 .25	--	--	16.0	75		23AF									
06/06/74 0755	5001 5050		7.9 88	70 21	F C	7.4	136	--	--	--	--	--	--	--	6.6 .19	--	--	16.0	90		20AF									
06/12/74 1125	5001 5050		8.2 90	68 20	F C	7.9	130	--	--	--	--	--	--	--	6.6 .19	--	--	15.8	91		18AF									
06/25/74 1145	5001 5050		7.5 82	68 20	F C	7.7	124	--	--	--	--	--	--	--	7.1 .20	--	--	16.2	86		20AF									
06/26/74 1110	5001 5050		7.7 84	68 20	F C	7.9	126	--	--	--	--	--	--	--	7.5 .21	--	--	15.6	84		19AF									
07/09/74 1020	5001 5050		7.1 81	72 22	F C	7.9	143	--	--	--	--	--	--	--	10 .28	--	--	12.3	89		18AF									
07/10/74 1010	5001 5050		7.8 87	70 21	F C	7.7	153	--	--	--	--	--	--	--	13 .37	--	--	15.6	93		18AF									
07/23/74 1030	5001 5050		7.7 89	73 23	F C	7.7	177	--	--	--	--	0 .00	60 .98	--	17 .48	--	--	16.4	104		22AF									
07/24/74 1040	5001 5050		7.6 89	75 24	F C	7.6	193	--	--	--	--	0 .00	58 .95	--	22 .62	--	--	15.8	115		18AF									
08/07/74 1010	5001 5050		7.6 88	73 23	F C	7.7	237	--	--	--	--	0 .00	60 .98	--	36 1.02	--	--	15.6	132		18AF									
08/13/74 1545	5001 5050		8.1 92	72 22	F C	7.8	238	--	--	--	--	0 .00	62 1.02	--	37 1.04	--	--	5.9	135		18AF									



TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCM	TURB SAR
B9 D 805.9 135.2 SAN JOAQUIN RIVER NEAR SAN ANDREAS LANDING																			
CONTINUED																			
08/23/74 1220	5001 5050		7.9 90	72 22	F C	7.7 170	--	--	--	0 .00	62 1.02	--	9.0 .25	--	--	--	101		15AF
		3																	
08/27/74 1545	5001 5050		8.3 94	72 22	F C	7.8 172	--	--	--	0 .00	68 1.11	--	16 .45	--	--	--	94		14AF
		3																	
09/04/74 0900	5001 5050		8.2 91	70 21	F C	8.0 150	--	--	--	0 .00	66 1.08	--	9.9 .28	--	--	--	99		14AF
		3																	
09/12/74 1525	5001 5050		8.6 98	72 22	F C	7.8 155	--	--	--	0 .00	68 1.11	--	8.5 .24	--	--	--	96		13AF
		3																	
09/19/74 1000	5001 5050		8.3 91	68 26	F C	7.7 185	--	--	--	0 .00	70 1.15	--	9.0 .25	--	--	--	99		13AF
		3																	
09/24/74 1405	5001 5050		8.6 94	68 20	F C	7.8 151	--	--	--	0 .00	64 1.05	--	7.5 .21	--	--	--	96		9AF
		3																	
B9 D 807.0 129.9 MOKELUMNE RIVER, SOUTH FORK, AT STATEN ISLAND																			
10/16/73 1230	5001 5050		8.4 86	63 17	F C	7.8 145 138	--	--	--	0 .00	60 .98	--	7.9 .22	--	--	--	84		10AF
		3																	
11/14/73 1125	5001 5050					58.1F 14.5C 145	--	--	9.7 .42	--	--	--	7.5 .21	--	--	--	92		
11/14/73 1255	5001 5050		8.3 80	57 14	F C	7.6 145 147	--	--	--	0 .00	62 1.02	--	8.6 .24	--	--	--	100		15AF
		3																	
12/12/73 1130	5001 5050		9.8 83	46 8	F C	7.1 131 126	--	--	--	0 .00	56 .92	--	6.1 .17	--	--	--	88		24AF
		3																	
01/10/74 1220	5001 5050		10.3 83	43 6	F C	150 144	--	--	--	0 .00	55 .90	--	10 .28	--	--	--	99		28AF
		3																	
02/07/74 1020	5001 5050		10.9 92	46 8	F C	7.2 128 121	--	--	--	0 .00	54 .89	--	6.4 .18	--	--	--	75		50AF
		3																	
B9 D 807.6 129.7 MOKELUMNE RIVER, SOUTH FORK, BELOW SYCAMORE SLOUGH																			
03/26/74 0910	5001 5050		9.8 91	54 12	F C	7.3 111	--	--	--	--	--	--	5.7 .16	--	--	--			23AF
		3																	
04/10/74 0720	5001 5050		8.7 84	57 14	F C	7.2 92	--	--	--	--	--	--	6.9 .19	--	--	--			27AF
		3																	
04/24/74 0625	5001 5050		8.4 81	57 14	F C	7.2 110	--	--	--	--	--	--	5.4 .15	--	--	--			20AF
		3																	
05/08/74 0600	5001 5050		8.3 85	63 17	F C	7.6 120	--	--	--	--	--	--	5.6 .16	--	--	--			17AF
		3																	
05/23/74 0710	5001 5050		8.6 89	63 17	F C	7.3 113	--	--	--	--	--	--	7.4 .21	--	--	--			18AF
		3																	
06/06/74 0625	5001 5050		7.7 84	68 20	F C	7.3 110	--	--	--	--	--	--	4.5 .13	--	--	--			16AF
		3																	
06/25/74 1005	5001 5050		7.3 80	68 20	F C	7.6 126	--	--	--	--	--	--	8.0 .23	--	--	--			18AF
		3																	
07/09/74 0840	5001 5050		6.5 72	70 21	F C	7.4 129	--	--	--	--	--	--	7.6 .21	--	--	--			22AF
		3																	
07/23/74 0850	5001 5050		7.7 91	75 24	F C	7.6 133	--	--	--	0 .00	58 .95	--	7.6 .21	--	--	--			16AF
		3																	
08/07/74 0830	5001 5050		6.9 81	75 24	F C	7.5 134	--	--	--	0 .00	60 .98	--	7.1 .20	--	--	--			16AF
		3																	
08/23/74 1040	5001 5050		7.6 86	72 22	F C	7.5 147	--	--	--	0 .00	64 1.05	--	9.0 .25	--	--	--			11AF
		3																	
09/04/74 0725	5001 5050		8.1 88	68 20	F C	7.9 144	--	--	--	0 .00	68 1.11	--	8.3 .23	--	--	--			11AF
		3																	
09/19/74 0825	5001 5050		8.4 92	66 20	F C	7.3 180	--	--	--	0 .00	66 1.08	--	8.5 .24	--	--	--			12AF
		3																	

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC		MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	TURB SAR			
89 D 808.5 128.0 SYCAMORE SLOUGH NEAR MOUTH																					
03/26/74 0045	5001 5050		7.8 75	57 14	F C	7.3	176	--	--	--	--	--	--	15 .42	--	--	--	--	--	12AF	
		3																17.4			
04/10/74 0655	5001 5050		8.4 81	57 14	F C	7.2	157	--	--	--	--	--	--	14 .39	--	--	--	--	--	16AF	
		3																17.0			
04/24/74 0550	5001 5050		9.0 89	59 15	F C	7.7	155	--	--	--	--	--	--	13 .37	--	--	--	--	--	15AF	
		3																8.4			
05/08/74 0535	5001 5050		9.1 97	66 19	F C	7.8	95	--	--	--	--	--	--	11 .31	--	--	--	--	--	9AF	
		3																4.8			
05/23/74 0650	5001 5050		8.6 90	64 18	F C	7.3	107	--	--	--	--	--	--	6.9 .19	--	--	--	--	--	16AF	
		3																7.6			
06/06/74 0600	5001 5050		7.5 85	72 22	F C	7.0	99	--	--	--	--	--	--	4.7 .13	--	--	--	--	--	15AF	
		3																7.4			
06/25/74 0940	5001 5050		6.8 77	72 22	F C	8.1	96	--	--	--	--	--	--	5.7 .16	--	--	--	--	--	15AF	
		3																7.6			
07/09/74 0820	5001 5050		6.0 68	72 22	F C	7.3	122	--	--	--	--	--	--	7.4 .21	--	--	--	--	--	16AF	
		3																16.7			
07/23/74 0825	5001 5050		8.0 96	77 25	F C	7.5	132	--	--	--	0 .00	58 .95	--	9.2 .26	--	--	--	--	--	13AF	
		3																12.2			
08/07/74 0800	5001 5050		7.2 85	75 24	F C	7.5	140	--	--	--	0 .00	60 .98	--	10 .28	--	--	--	--	--	12AF	
		3																13.4			
08/23/74 1015	5001 5050		7.6 88	73 23	F C	7.7	133	--	--	--	0 .00	56 .92	--	9.4 .27	--	--	--	--	--	10AF	
		3																14.0			
09/04/74 0640	5001 5050		7.2 82	72 22	F C	7.7	129	--	--	--	0 .00	58 .95	--	8.5 .24	--	--	--	--	--	11AF	
		3																14.2			
09/19/74 0755	5001 5050		7.6 85	70 21	F C	7.7	171	--	--	--	0 .00	58 .95	--	8.5 .24	--	--	--	--	--	10AF	
		3																14.4			
89 D 808.7 133.4 MOKELUMNE RIVER, NORTH FORK, AT BROAD SLOUGH																					
03/26/74 0945	5001 5050		9.1 86	55 13	F C	7.5	107	--	--	--	--	--	--	5.4 .15	--	--	--	--	--	16AF	
		3																17.6			
04/10/74 0755	5001 5050		8.6 81	55 13	F C	7.1	88	--	--	--	--	--	--	4.4 .12	--	--	--	--	--	12AF	
		3																15.6			
04/24/74 0715	5001 5050		8.5 82	57 14	F C	7.1	110	--	--	--	--	--	--	3.9 .11	--	--	--	--	--	22AF	
		3																16.8			
05/08/74 0635	5001 5050		8.3 85	63 17	F C	7.4	132	--	--	--	--	--	--	6.0 .17	--	--	--	--	--	14AF	
		3																16.6			
05/23/74 0740	5001 5050		8.8 89	61 16	F C	7.3	126	--	--	--	--	--	--	5.8 .16	--	--	--	--	--	18AF	
		3																15.4			
06/06/74 0650	5001 5050		7.6 83	68 20	F C	7.3	132	--	--	--	--	--	--	5.8 .16	--	--	--	--	--	16AF	
		3																16.2			
06/25/74 1035	5001 5050		7.3 80	68 20	F C	7.7	127	--	--	--	--	--	--	7.3 .21	--	--	--	--	--	15AF	
		3																17.2			
07/09/74 0910	5001 5050		7.0 78	70 21	F C	7.6	123	--	--	--	--	--	--	5.8 .16	--	--	--	--	--	17AF	
		3																16.8			
07/23/74 0920	5001 5050		7.9 91	73 23	F C	7.6	126	--	--	--	0 .00	58 .95	--	5.7 .16	--	--	--	--	--	15AF	
		3																16.2			
08/07/74 0905	5001 5050		7.3 84	73 23	F C	7.5	130	--	--	--	0 .00	58 .95	--	6.3 .18	--	--	--	--	--	15AF	
		3																16.0			
08/23/74 1110	5001 5050		7.7 86	70 21	F C	7.6	131	--	--	--	0 .00	62 1.02	--	5.7 .16	--	--	--	--	--	12AF	
		3																17.4			
09/04/74 0800	5001 5050		7.5 82	68 20	F C	8.0	153	--	--	--	0 .00	62 1.02	--	9.4 .27	--	--	--	--	--	13AF	
		3																18.2			
09/19/74 0655	5001 5050		8.4 90	66 19	F C	7.6	167	--	--	--	0 .00	66 1.08	--	8.6 .24	--	--	--	--	--	13AF	
		3																17.2			

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.M. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				TURNS SAR
						CA	MG	NA	K	CO3	PERCENT	REACTANCE	VALUE	CL	NO3	B	F	TDS SUM	TH NCH			
H9 D 808.8 125.8 SYCAMORE SLOUGH AT DRAIN																						
10/16/73	5001		4.6	66	F 7.5	245	--	--	--	0	84	--	13	--	--	--	--	--	--	--	15AF	
1450	5050	2	49	19	C 7.6	231	--	--	--	.00	1.38	--	.37	--	--	--	--	--	--	18.2		
11/14/73	5001		0.1	57	F 7.5	680	--	--	--	0	236	--	49	--	--	--	--	--	--	22.0	29AF	
1500	5050	2	1	14	C 6.9	620	--	--	--	.00	3.87	--	1.38	--	--	--	--	--	--			
12/12/73	5001		0.0	46	F 7.3	930	--	--	--	0	286	--	56	--	--	--	--	--	--	40.0	46AF	
1430	5050	3	8	C 7.3	810	--	--	--	--	.00	4.69	--	1.58	--	--	--	--	--	--			
01/10/74	5001		0.0	43	F 7.3	1140	--	--	--	0	531	--	74	--	--	--	--	--	--	44.4	65AF	
1450	5050	2	6	C 7.3	1090	--	--	--	--	.00	8.70	--	2.09	--	--	--	--	--	--			
02/07/74	5001		0.0	48	F 7.4	1065	--	--	--	0	466	--	60	--	--	--	--	--	--	43.2	50AF	
1400	5050	2	9	C 7.6	1020	--	--	--	--	.00	7.64	--	1.69	--	--	--	--	--	--			
H9 D 809.0 135.8 GEORGIANA SLOUGH NEAR ISLETON																						
03/26/74	5001		10.0	54	F 7.6	103	--	--	--	--	--	--	4.4	--	--	--	--	--	--	17.6	25AF	
1020	5050	3	92	12	C		--	--	--	--	--	--	.12	--	--	--	--	--	--			
04/10/74	5001		9.5	54	F 7.2	86	--	--	--	--	--	--	2.4	--	--	--	--	--	--	15.6	37AF	
0830	5050	3	88	12	C		--	--	--	--	--	--	.07	--	--	--	--	--	--			
04/24/74	5001		8.9	55	F 7.1	109	--	--	--	--	--	--	4.0	--	--	--	--	--	--	16.8	28AF	
0745	5050	3	84	13	C		--	--	--	--	--	--	.11	--	--	--	--	--	--			
05/08/74	5001		8.4	63	F 7.4	129	--	--	--	--	--	--	5.9	--	--	--	--	--	--	16.6	13AF	
0705	5050	3	86	17	C		--	--	--	--	--	--	.17	--	--	--	--	--	--			
05/23/74	5001		9.0	61	F 7.4	127	--	--	--	--	--	--	6.0	--	--	--	--	--	--	16.0	17AF	
0805	5050	3	91	16	C		--	--	--	--	--	--	.17	--	--	--	--	--	--			
06/06/74	5001		8.1	68	F 7.3	132	--	--	--	--	--	--	5.7	--	--	--	--	--	--	16.2	12AF	
0720	5050	3	88	20	C		--	--	--	--	--	--	.16	--	--	--	--	--	--			
06/25/74	5001		7.3	68	F 7.7	130	--	--	--	--	--	--	6.8	--	--	--	--	--	--	17.0	13AF	
1110	5050	3	80	20	C		--	--	--	--	--	--	.19	--	--	--	--	--	--			
07/09/74	5001		7.3	70	F 7.8	127	--	--	--	--	--	--	6.5	--	--	--	--	--	--	16.2	13AF	
0940	5050	3	81	21	C		--	--	--	--	--	--	.18	--	--	--	--	--	--			
07/23/74	5001		8.1	73	F 7.6	128	--	--	--	0	58	--	6.6	--	--	--	--	--	--	16.6	12AF	
0950	5050	3	94	23	C		--	--	--	.00	.95	--	.19	--	--	--	--	--	--			
08/07/74	5001		7.1	73	F 7.5	131	--	--	--	0	58	--	5.7	--	--	--	--	--	--	16.2	12AF	
0930	5050	3	82	23	C		--	--	--	.00	.95	--	.16	--	--	--	--	--	--			
08/23/74	5001		7.9	70	F 7.6	140	--	--	--	0	62	--	6.6	--	--	--	--	--	--	16.6	14AF	
1135	5050	3	88	21	C		--	--	--	.00	1.02	--	.19	--	--	--	--	--	--			
09/04/74	5001		7.9	68	F 8.0	157	--	--	--	0	72	--	8.5	--	--	--	--	--	--	19.0	14AF	
0825	5050	3	86	20	C		--	--	--	.00	1.18	--	.24	--	--	--	--	--	--			
09/19/74	5001		8.2	66	F 7.6	174	--	--	--	0	68	--	8.0	--	--	--	--	--	--	17.0	11AF	
0925	5050	3	88	19	C		--	--	--	.00	1.11	--	.23	--	--	--	--	--	--			
H9 D 809.4 141.0 SACRAMENTO RIVER BELOW RIO VISTA BRIDGE																						
10/04/73	5001		8.0	64.4F	7.7	156	--	--	--	0	70	--	9.4	--	--	--	--	--	--	102	11AF	
1150	5050	3	84	18.0C	8.1	164	--	--	--	.00	1.15	--	.27	--	--	--	--	--	--	18.6		
11/01/73	5001		9.0	59.0F	7.4	144	--	--	--	0	64	--	7.5	--	--	--	--	--	--	94	11AF	
1005	5050	3	89	15.0C	8.0	148	--	--	--	.00	1.05	--	.21	--	--	--	--	--	--	18.0		
11/13/73	5001		57.2F			136	--	--	8.7	--	--	--	6.7	--	--	--	--	--	--	88		
1320	5050		14.0C				--	--	.38	--	--	--	.19	--	--	--	--	--	--			
12/06/73	5001		9.9	50.0F	7.0	105	--	--	--	0	50	--	4.7	--	--	--	--	--	--	71	56AF	
1340	5050	3	87	10.0C	7.9	108	--	--	--	.00	.82	--	.13	--	--	--	--	--	--	17.4		
01/17/74	5001		10.7	48.2F	7.5	118	--	--	--	0	54	--	6.6	--	--	--	--	--	--	69	32AF	
1320	5050	3	92	9.0C	7.7	123	--	--	--	.00	.89	--	.19	--	--	--	--	--	--	16.2		
02/14/74	5001		10.5	48.2F	7.6	148	--	--	--	0	74	--	7.6	--	--	--	--	--	--	97	50AF	
1055	5050	3	91	9.0C	7.7	160	--	--	--	.00	1.21	--	.21	--	--	--	--	--	--	17.2		
03/21/74	5001		9.5	55.4F	7.8	115	--	--	--	--	--	--	4.5	--	--	--	--	--	--	68	35AF	
1530	5050	3	90	13.0C			--	--	--	--	--	--	.13	--	--	--	--	--	--	17.2		
04/02/74	5001		9.7	52	F 7.6	150	--	--	--	--	--	--	6.0	--	--	--	--	--	--	96	272AF	
1250	5050	3	88	11	C		--	--	--	--	--	--	.17	--	--	--	--	--	--	15.0		

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3		B	F	TDS SUM	TH NCH	TURB SAR					
89 D 809.4 141.0 SACRAMENTO RIVER BELOW RIO VISTA BRIDGE																					CONTINUED				
04/17/74 1310	5001 5050		9.3 90	57 14	F C	7.5	117	--	--	--	--	--	--	4.5 .13	--	--	--	83		31AF					
3																					17.2				
04/30/74 1150	5001 5050		9.2 91	59 15	F C	7.5	160	--	--	--	--	--	--	7.6 .21	--	--	--	98		22AF					
3																					16.0				
05/14/74 1045	5001 5050		8.5 87	63 17	F C	7.3	120	--	--	--	--	--	--	5.8 .16	--	--	--	81		25AF					
3																					16.6				
06/12/74 1010	5001 5050		8.4 92	68 20	F C	8.0	127	--	--	--	--	--	--	6.4 .18	--	--	--	82		15AF					
3																					16.4				
06/26/74 1010	5001 5050		7.7 84	68 20	F C	7.9	138	--	--	--	--	--	--	8.5 .24	--	--	--	92		15AF					
3																					16.6				
07/10/74 0830	5001 5050		7.9 88	70 21	F C	7.8	134	--	--	--	--	--	--	7.4 .21	--	--	--	85		16AF					
3																					16.6				
07/24/74 0905	5001 5050		8.1 95	75 24	F C	7.7	136	--	--	--	0 .00	58 .95	--	7.4 .21	--	--	--	84		14AF					
3																					16.6				
08/13/74 1410	5001 5050		7.6 85	70 21	F C	7.9	138	--	--	--	0 .00	62 1.02	--	7.1 .20	--	--	--	83		11AF					
3																					15.8				
08/27/74 1415	5001 5050		8.2 91	70 21	F C	7.7	144	--	--	--	0 .00	66 1.08	--	9.0 .25	--	--	--	82		10AF					
3																					16.4				
09/12/74 1425	5001 5050		8.3 92	70 21	F C	7.8	161	--	--	--	0 .00	70 1.15	--	9.4 .27	--	--	--	102		12AF					
3																					16.8				
09/24/74 1235	5001 5050		8.4 92	68 20	F C	7.7	140	--	--	--	0 .00	64 1.05	--	7.1 .20	--	--	--	93		9AF					
3																					16.6				
89 D 810.1 127.9 HOG SLOUGH NEAR THORNTON																									
10/16/73 1410	5001 5050		8.0 86	66 19	F C	7.9 7.7	500 488	--	--	--	0 .00	94 1.54	--	93 2.62	--	--	--	296		10AF					
3																					19.0				
11/14/73 1420	5001 5050		7.3 71	57 14	F C	7.6 8.1	825 827	--	--	--	0 .00	153 2.51	--	170 4.79	--	--	--	424		13AF					
3																					19.8				
12/12/73 1345	5001 5050		7.8 66	46 8	F C	7.6 7.9	1050 1000	--	--	--	0 .00	207 3.39	--	194 5.47	--	--	--	592		10AF					
3																					24.0				
01/10/74 1410	5001 5050		9.6 77	43 6	F C		940 883	--	--	--	0 .00	212 3.47	--	173 4.88	--	--	--	536		11AF					
3																					22.4				
02/07/74 1315	5001 5050		9.9 85	48 9	F C	8.0 8.5	1050 954	--	--	--	5.0 .17	222 3.64	--	186 5.25	--	--	--	535		11AF					
3																					22.4				
89 D 812.3 126.8 BEAVER SLOUGH NEAR THORNTON																									
10/16/73 1320	5001 5050		1.2 13	66 19	F C	7.4 7.6	175 155	--	--	--	0 .00	50 .82	--	10 .28	--	--	--			7AF					
3																					15.6				
11/14/73 1340	5001 5050		5.5 53	57 14	F C	7.3 7.5	188 169	--	--	--	0 .00	49 .80	--	11 .31	--	--	--			15AF					
3																					14.4				
12/12/73 1305	5001 5050		2.1 18	46 8	F C	7.2 7.8	428 382	--	--	--	0 .00	104 1.70	--	36 1.02	--	--	--			12AF					
3																					20.2				
01/10/74 1315	5001 5050		3.2 26	45 7	F C	7.2	685 636	--	--	--	0 .00	194 3.18	--	87 2.45	--	--	--			15AF					
3																					24.4				
02/07/74 1215	5001 5050		4.8 41	48 9	F C	7.6 7.8	725 628	--	--	--	0 .00	200 3.28	--	72 2.03	--	--	--			14AF					
3																					25.6				
89 D 814.5 133.2 SACRAMENTO RIVER NEAR RYOE																									
03/26/74 0805	5001 5050		9.7 90	54 12	F C	7.3	106	--	--	--	0 .00	52 .85	--	4.4 .12	--	--	--			25AF					
3																					17.6				
04/10/74 0745	5001 5050		8.5 79	54 12	F C	7.3	67	--	--	--	0 .00	46 .75	--	4.0 .11	--	--	--			35AF					
3																					16.0				
04/25/74 0745	5001 5050		9.3 86	54 12	F C	7.5	122	--	--	--	0 .00	56 .92	--	4.9 .14	--	--	--			32AF					
3																					16.8				
05/09/74 0800	5001 5050		7.9 81	63 17	F C	7.6	121	--	--	--	0 .00	56 .92	--	4.7 .13	--	--	--			16AF					
3																					16.4				
05/23/74 0650	5001 5050		8.2 83	61 16	F C	7.2	128	--	--	--	0 .00	54 .89	--	5.4 .15	--	--	--			18AF					
3																					15.4				

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER						
						CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	8	F	TDS SUM	TH NCM	TURB SAR			
69 D 814.5						133.2	SACRAMENTO RIVER NEAR RYOE										CONTINUED					
06/06/74 0645	5001 5050	3	7.6 83	68 20	F C	6.9	125	--	--	--	--	0 .00	54 .89	--	6.1 .17	--	--	--	--	16.2		15AF
06/25/74 0940	5001 5050	3	8.7 93	66 19	F C	6.9	125	--	--	--	--	0 .00	56 .92	--	6.4 .18	--	--	--	--	17.0		9AF
07/09/74 0840	5001 5050	3	8.2 90	68 20	F C	7.9	118	--	--	--	--	0 .00	60 .98	--	6.6 .19	--	--	--	--	16.7		11AF
07/23/74 0855	5001 5050	3	8.3 94	72 22	F C	7.6	110	--	--	--	--	0 .00	54 .89	--	5.2 .15	--	--	--	--	16.6		13AF
08/07/74 0900	5001 5050	3	7.9 90	72 22	F C	7.4	126	--	--	--	--	0 .00	64 1.05	--	6.6 .19	--	--	--	--	16.2		11AF
08/23/74 1035	5001 5050	3	8.0 91	71.6F 22.0C	7.4	140	--	--	--	--	0 .00	68 1.11	--	6.6 .19	--	--	--	--	16.4		11AF	
09/05/74 0835	5001 5050	3	8.0 87	68 20	F C	7.4	156	--	--	--	--	0 .00	68 1.11	--	8.0 .23	--	--	--	--	16.8		17AF
09/19/74 0815	5001 5050	3	8.4 90	66 19	F C	7.5	131	--	--	--	--	0 .00	64 1.05	--	6.6 .19	--	--	--	--	17.2		10AF
89 D 815.3						126.3	MOKELUMNE RIVER NEAR THORNTON															
10/16/73 1140	5001 5050	3	8.7 86	59 15	F C	7.3 7.4	51 58	--	--	--	--	0 .00	23 .38	--	3.4 .10	--	--	--	--	13.2	44	3AF
11/14/73 1155	5001 5050	3	8.0 77	57 14	F C	7.0 7.5	48 62	--	--	--	--	0 .00	25 .41	--	4.4 .12	--	--	--	--	12.0	49	26AF
12/12/73 1025	5001 5050	3	10.5 88	46 8	F C	6.9 7.7	58 83	--	--	--	--	0 .00	34 .56	--	3.8 .11	--	--	--	--	13.4	58	6AF
01/10/74 1100	5001 5050	3	10.3 83	43 6	F C	7.8	57 92	--	--	--	--	0 .00	39 .64	--	4.7 .13	--	--	--	--	13.8	67	14AF
02/07/74 0915	5001 5050	3	10.8 89	45 7	F C	6.8 8.0	100 93	--	--	--	--	0 .00	41 .67	--	3.4 .10	--	--	--	--	15.0	57	23AF
03/25/74 1435	5001 5050	3	9.2 87	55 13	F C	7.3	102	--	--	--	--	0 .00	46 .75	--	3.9 .11	--	--	--	--	17.8	67	14AF
04/09/74 0705	5001 5050	3	8.9 80	52 11	F C	6.7	47	--	--	--	--	0 .00	28 .46	--	2.9 .08	--	--	--	--	13.8	48	8AF
04/24/74 0610	5001 5050	3	9.2 83	52 11	F C	7.1	45	--	--	--	--	0 .00	26 .43	--	2.0 .06	--	--	--	--	12.6	44	5AF
05/08/74 0600	5001 5050	3	8.5 89	64 18	F C	6.8	62	--	--	--	--	0 .00	32 .52	--	1.8 .05	--	--	--	--	15.4	61	10AF
05/22/74 0510	5001 5050	3	8.5 82	57 14	F C	6.8	38	--	--	--	--	0 .00	20 .33	--	2.9 .08	--	--	--	--	11.0	30	3AF
06/05/74 0505	5001 5050	3	8.5 84	59 15	F C	6.7	38	--	--	--	--	0 .00	20 .33	--	1.9 .05	--	--	--	--	11.6	40	4AF
06/24/74 0815	5001 5050	3	8.0 87	68 20	F C	7.1	56	--	--	--	--	0 .00	36 .59	--	4.2 .12	--	--	--	--	14.0	52	7AF
07/08/74 0745	5001 5050	3	8.2 90	68 20	F C	6.2	45	--	--	--	--	0 .00	18 .30	--	3.8 .11	--	--	--	--	16.8	36	4AF
07/22/74 0755	5001 5050	3	7.7 92	77 25	F C	6.9	52	--	--	--	--	--	--	--	2.8 .08	--	--	--	--	12.6	42	5AF
08/06/74 0715	5001 5050	3	7.7 87	72 22	F C	6.2	50	--	--	--	--	0 .00	18 .30	--	3.8 .11	--	--	--	--	11.0	40	7AF
08/22/74 0910	5001 5050	3	8.0 92	73.4F 23.0C	6.9	49	--	--	--	--	0 .00	24 .39	--	3.3 .09	--	--	--	--	11.4	40	7AF	
09/04/74 0710	5001 5050	3	8.3 91	68 20	F C	7.0	46	--	--	--	--	0 .00	24 .39	--	4.7 .13	--	--	--	--	11.4	31	5AF
09/18/74 0700	5001 5050	3	8.3 89	66 19	F C	6.9	43	--	--	--	--	0 .00	18 .30	--	3.3 .09	--	--	--	--	11.4	35	3AF

DATE TIME	SAMPLER LAB	G.H. DEPTH	00 SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	8	F	TDS SUM	TH NCH	TURB SAR			
89 0 819.1 130.1 SNODGRASS SLOUGH AT SOUTHERN PACIFIC RR BRIDGE																						
10/16/73	5001		4.5	64	F	7.5	245	--	--	--	--	0	109	--	15	--	--	--	15AF			
1100	5050	3	47	18	C	7.6	245					.00	1.79		.42		22.0					
11/14/73	5001		5.5	55	F	7.5	270	--	--	--	--	0	114	--	20	--	--	20AF				
1110	5050	3	52	13	C	8.0	265					.00	1.87		.56		22.0					
12/12/73	5001		5.0	46	F	7.0	405	--	--	--	--	0	140	--	39	--	--	14AF				
0935	5050	3	42	8	C	8.0	393					.00	2.29		1.10		28.0					
01/10/74	5001		6.8	41	F		270	--	--	--	--	0	94	--	27	--	--	32AF				
1015	5050	3	53	5	C	7.8	272					.00	1.54		.76		17.4					
02/07/74	5001		8.7	45	F	7.5	390	--	--	--	--	0	147	--	35	--	--	21AF				
0825	5050	3	71	7	C	8.3	384					.00	2.41		.99		22.0					
89 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING																						
10/16/73	5001		8.5	61	F	7.8	147	--	--	--	--	0	64	--	7.5	--	--	7AF				
1010	5050	3	86	16	C	7.9	147					.00	1.65		.21		19.8					
10/17/73	5050		9.7	62	F	7.4	118	11	5.3	8.0	1.2	0	65	7.0	4.9	.7	.05	.1	49	6A		
1230	5000	1.5	99	17	C	7.8	131	.55	.44	.35	.03	.00	1.07	.15	.14	.01	18.0	88	0	0.5		
11/14/73	5001		8.4	54	F	7.9	68	--	--	--	--	0	40	--	5.4	--	--	69	116AF			
1020	5050	3	78	12	C	7.7	92					.00	.66		.15		16.0					
11/14/73	5001				58.1F			8.1	2.9	4.4	1.2	0	40	4.1	2.1	2.0	.00	--	71	32		
1230	5050				14.5C	7.3	87	.40	.24	.19	.03	.00	.66	.09	.06	.03	--	44	0	0.3		
								.47	.28	.22	.3		.79	.11	.7	.4						
11/14/73	5050		9.0	56	F	7.2	89	7.8	3.4	4.7	1.2	0	41	5.2	3.7	1.5	.18	.1	64	34		
1330	5000	1.5	86	13	C			.39	.28	.20	.03	.00	.67	.11	.10	.02	16.0		0	90A		
								.43	.31	.22	.3		.74	.12	.11	.2			0	0.4		
12/12/73	5001		9.6	46	F	7.6	125	--	--	--	--	0	57	--	5.4	--	--	78	24AF			
0900	5050	3	81	8	C	7.9	119					.00	.93		.15		18.2					
12/19/73	5050		10.8	48	F	7.2	122	10	4.8	6.9	.9	0	60	5.2	3.1	1.2	.03	.1	80	45		
1215	5000		93	9	C			.50	.39	.30	.02	.00	.80	.11	.09	.02	18.0		0	20A		
								.41	.32	.25	.2		.82	.9	.8	.2			0	0.4		
01/10/74	5001		10.8	41	F		111	--	--	--												

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	PERCENT REACTANCE VALUE				B	F	TDS SUM	TH NCH	TURB SAR						
											HCO3	SO4	CL	NO3											
89 0 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING CONTINUED																									
07/09/74 0745	5001 5050		7.7 83	66 19	F C	7.7 124	-- --	-- --	-- --	0 .00	58 .95	-- --	7.5 .21	-- --	-- --	17.2	82		11AF						
07/17/74 1140	5050 5000		8.2 93	71 22	F C	7.3 133	12 .60	6.0 .49	8.5 .37	.9 .02	0 .00	67 1.10	9.8 .20	5.7 .16	.6 .01	.04 .17	93	55 0	20A 0.5						
07/23/74 0810	5001 5050		7.9 90	72 22	F C	7.6 120	-- --	-- --	-- --	0 .00	56 .92	-- --	6.8 .19	-- --	-- --	16.0	79		12AF						
08/07/74 0755	5001 5050		7.7 87	72 22	F C	7.3 130	-- --	-- --	-- --	0 .00	60 .98	-- --	7.1 .20	-- --	-- --	16.4	91		10AF						
08/23/74 0945	5001 5050		8.3 92	69.8F 21.0C	7.1 139	-- --	-- --	-- --	-- --	0 .00	62 1.02	-- --	8.5 .24	-- --	-- --	16.2	87		12AF						
09/05/74 0740	5001 5050		8.2 90	68 20	F C	7.4 159	-- --	-- --	-- --	0 .00	68 1.11	-- --	9.0 .25	-- --	-- --	17.2	106		12AF						
09/19/74 0740	5001 5050		8.3 89	66 19	F C	7.5 140	-- --	-- --	-- --	0 .00	66 1.08	-- --	8.5 .24	-- --	-- --	17.2	92		11AF						
64 1590.01 SUSAN RIVER NEAR LITCHFIELD																									
10/16/73 1020	5050 5050		13.2 144	55.4F 13.0C	8.1 420	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			4AF						
11/13/73 1545	5050 5050	225	11.9 108	41.9F 5.5C	7.5 167	11 .55	7.2 .59	14 .61	2.9 .07	0 .00	86 1.41	9.0 .19	3.7 .10	3.8 .06	.00 .06	-- 3	112 94	57 0	77A 0.8						
12/05/73 1315	5050 5050	120	12.9 113	39.2F 4.0C	8.3 263	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			12AF						
01/15/74 1400	5050 5050	1090	12.3 107	39.2F 4.0C	7.4 125	-- --	-- --	11 .48	-- 37	0 .00	62 1.02	-- --	.5 .01	-- --	.10 --	-- --		41	330A 0.7						
02/06/74 1010	5050 5050	504	12.3 99	33.8F 1.0C	8.3 277	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			27AF						
03/13/74 1420	5050 5050	334	11.7 110	44.6F 7.0C	7.8 185	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			86AF						
04/17/74 1040	5050 5050	427	10.9 111	50.0F 10.0C	8.0 138	-- --	-- --	10 .44	-- 32	0 .00	74 1.21	-- --	1.4 .04	-- --	.00 --	-- --		47	21A 0.8						
05/09/74 0755	5050 5050	838	9.9 108	55.4F 13.0C	7.4 94	-- --	-- --	6.6 .29	-- 30	0 .00	48 .79	-- --	.5 .01	-- --	.00 --	-- --		34	52A 0.5						
06/06/74 1130	5050 5050	273	7.7 95	66.2F 19.0C	7.7 228	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			10AF						
07/17/74 1515	5050 5050	100	11.4 169	84.2F 29.0C	8.3 434	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			3AF						
08/15/74 1000	5050 5050	95	9.5 117	66.2F 19.0C	8.2 457	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			5AF						
09/11/74 1345	5050 5050	24	11.2 141	68.0F 20.0C	8.4 441	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			10AF						
64 1600.00 SUSAN RIVER AT SUSANVILLE																									
10/16/73 1125	5050 5050	1.14 9.4	12.5 128	50.0F 10.0C	7.8 180	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			2AF						
11/13/73 1445	5050 5050	2.80 176	12.6 115	41.9F 5.5C	7.4 90	9.0 .45	4.0 .33	3.0 .13	1.4 .04	0 .00	50 .82	1.6 .03	1.5 .04	.7 .01	.00 .01	-- 1	64 46	39 0	12A 0.2						
12/05/73 1415	5050 5050	2.11 71	13.0 113	38.3F 3.5C	7.6 115	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			5AF						
01/15/74 1445	5050 5050	4.67 947	12.3 111	41.0F 5.0C	7.3 63	-- --	-- --	2.8 .12	-- 20	0 .00	33 .54	-- --	.5 .01	-- --	.00 --	-- --		24	85A 0.2						
02/06/74 1120	5050 5050	3.80 480	12.5 103	35.2F 1.8C	7.7 106	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			24AF						
03/13/74 1330	5050 5050	2.92 184	12.3 110	40.1F 4.5C	8.4 93	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --			11AF						
04/17/74 1145	5050 5050	3.71 404	14.3 107	44.6F 7.0C	8.2 72	-- --	-- --	2.7 .12	-- 16	0 .00	42 .69	-- --	.0 .00	-- --	.00 --	-- --		31	6A 0.2						

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	B	F	TD5 SUM	TH NCH	TURB SAR	
G4 1600.00 SUSAN RIVER AT SUSANVILLE CONTINUED																				
05/09/74 0650	5050 5050	4.55 825	10.4 106	50.0F 10.0C	7.5 7.1	57	--	--	2.2 .10 18	--	0 .00	33 .54	-- .00	-- .00	--	.00	--	--	23	21A 0.2
06/06/74 1300	5050	3.25 262	8.4 98	60.8F 16.0C	7.5	64	--	--	--	--	--	--	--	--	--	--	--	--	4AF	
07/17/74 1615	5050	2.36 88	8.7 115	71.6F 22.0C	7.9	73	--	--	--	--	--	--	--	--	--	--	--	--	4AF	
08/15/74 1115	5050	2.30 80	8.9 106	62.6F 17.0C	8.0	69	--	--	--	--	--	--	--	--	--	--	--	--	2AF	
09/11/74 1300	5050	1.24 11	8.7 106	64.4F 18.0C	8.3	153	--	--	--	--	--	--	--	--	--	--	--	--	1AF	
G6 1705.00 LONG VALLEY CREEK NEAR HALLELUJAH JUNCTION																				
11/13/73 1250	5050 5050	2.57 4.9	12.3 129	50.0F 10.0C	8.1 7.9	223 237	21 1.05 42	9.8 .81 32	14 .61 24	2.5 .06 2	0 .00	141 2.31 92	4.9 .10 4	3.1 .09 4	.6 .01	.10	--	157 125	93 0	2A 0.6
01/16/74 0750	5050 5050	3.15 40	11.6 101	37.4F 3.0C	7.7 7.5	183 186	--	--	11 .48 25	--	0 .00	108 1.77	--	.7 .02	--	.00	--	--	73	46A 0.6
03/13/74 1130	5050 5050	3.09 29	10.8 108	46.4F 8.0C	8.1	208	--	--	--	--	--	--	--	--	--	--	--	--	28AF	
05/09/74 1015	5050 5050	3.12 28	8.7 105	61.7F 16.5C	8.1 7.9	203	--	--	14 .61 20	--	0 .00	166 2.72	--	.0 .00	--	.00	--	--	119	8A 0.6
07/18/74 0900	5050	2.40 .9	10.4 136	68.9F 20.5C	8.2	299	--	--	--	--	--	--	--	--	--	--	--	--	--	
09/11/74 1035	5050	2.39 .8	8.6 107	64.4F 18.0C	8.1	298	--	--	--	--	--	--	--	--	--	--	--	--	--	
G7 L 856.3 000.5 LAKE TAHOE AT TAHOE KEYS PIER (S-1)																				
05/08/74 1005	5050 5050		9.1 106	54.1F 12.3C	7.4	94 91	--	--	--	--	--	--	--	1.8 .05	.0 .00	--	--	--	0.44A	
08/14/74 1015	5050 5050		7.6 100	64.4F 18.0C	7.9	95 93	--	--	--	--	--	--	--	1.7 .05	--	--	--	--	0.36A	
G7 L 856.3 002.3 LAKE TAHOE AT CAMP RICHARDSON - EDWARDS PIER (S-6A)																				
05/08/74 0920	5050 5050		9.2 102	50.2F 10.1C	7.5	71 84	--	--	--	--	--	--	--	1.7 .05	--	--	--	--	0.22A	
08/14/74 0940	5050 5050		7.2 95	64.8F 18.2C	7.9	94 92	--	--	--	--	--	--	--	1.7 .05	--	--	--	--	0.16A	
G7 L 857.0 958.0 2 LAKE TAHOE AT SURF AND SANDS PIER (S-10)																				
05/08/74 1050	5050 5050		9.1 107	54.7F 12.6C	7.5	85 80	--	--	--	--	--	--	--	1.7 .05	--	--	--	--	0.70A	
08/14/74 1105	5050 5050		7.2 95	64.4F 18.0C	7.9	66 91	--	--	--	--	--	--	--	1.9 .05	--	--	--	--	0.18A	
G7 L 857.6 957.1 LAKE TAHOE AT STATELINE - LAKESIDE MARINA PIER(S-13)																				
05/08/74 1200	5050 5050		9.1 111	57.7F 14.3C	7.3	88 84	--	--	--	--	--	--	--	2.0 .06	--	--	--	--	0.63A	
08/14/74 1215	5050 5050		7.4 100	66.4F 19.1C	7.9	96 90	--	--	--	--	--	--	--	1.7 .05	--	--	--	--	0.36A	
G7 L 900.0 000.0 LAKE TAHOE - SOUTH CENTER (C-1)																				
05/08/74 0930	5050 5050		9.5 103	48.4F 9.1C	7.5	91 93	--	--	--	--	--	--	--	2.0 .06	.0 .00	--	--	--	0.32A	
08/14/74 0915	5050 5050		7.5 100	65.8F 18.8C	7.9	92 93	--	--	--	--	--	--	--	1.7 .05	--	--	--	--	0.20A	
G7 L 900.4 956.9 LAKE TAHOE AT ZEPHYR COVE PIER (S-8)																				
05/08/74 1130	5050 5050		9.0 103	52.5F 11.4C	7.5	89 86	--	--	--	--	--	--	--	1.8 .05	--	--	--	--	0.44A	
08/14/74 1115	5050 5050		7.2 97	66.4F 19.1C	7.8	90 90	--	--	--	--	--	--	--	1.8 .05	--	--	--	--	0.26A	



TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER						
						CA	MG	NA	K	CO3	MC03	SO4	CL	NO3	B	F	TDS SUM	TH NCM	TURB SAR	
G7 L 900.9 006.8 2 LAKE TAMOE AT RUBICON BAY PIER (S-2)																				
05/08/74 0835	5050 5050			9.5 100	46.4F 8.0C	7.5 91 92	--	--	--	--	--	--	1.6 .05	.0 .00	--	--	--		0.22A	
08/14/74 0855 5050 5050 7.4 64.9F 8.0 93 -- -- -- -- -- -- 1.7 -- -- -- 0.18A 98 18.3C 92 .05 -- --																				
G7 L 902.3 007.2 LAKE TAMOE AT WEEKS BAY RESORT PIER (S-12)																				
05/08/74 0725	5050 5050			9.6 100	45.7F 7.6C	7.3 93 89	--	--	--	--	--	--	1.7 .05	--	--	--	--		0.25A	
08/14/74 0810	5050 5050			7.1 93	64.0F 17.8C	7.8 85 91	--	--	--	--	--	--	1.7 .05	--	--	--	--		0.21A	
G7 L 905.3 956.4 LAKE TAMOE AT GLENBROOK BAY PIER (S-3)																				
05/08/74 1050	5050 5050			9.4 104	49.8F 9.9C	7.5 88 93	--	--	--	--	--	--	2.0 .06	--	--	--	--		0.27A	
08/14/74 1035	5050 5050			7.5 99	64.4F 18.0C	7.8 90 92	--	--	--	--	--	--	1.6 .05	--	--	--	--		0.28A	
G7 L 907.8 009.2 LAKE TAMOE AT WARD CREEK PIER (S-11)																				
05/08/74 0705	5050 5050			9.7 99	44.2F 6.8C	7.4 90 90	--	--	--	--	--	--	1.4 .04	--	--	--	--		0.27A	
08/14/74 0650	5050 5050			7.8 100	61.9F 16.6C	8.0 85 91	--	--	--	--	--	--	1.8 .05	--	--	--	--		0.23A	
G7 L 908.7 000.3 LAKE TAMOE - NORTH CENTER (C-2)																				
05/08/74 0755	5050 5050			9.6 104	48.2F 9.0C	7.5 98 95	--	--	--	--	--	--	2.7 .08	.0 .00	--	--	--		0.22A	
08/14/74 0745	5050 5050			7.5 98	64.0F 17.8C	7.9 91 92	--	--	--	--	--	--	1.8 .05	--	--	--	--		0.12A	
G7 L 910.8 007.1 2 LAKE TAMOE AT US COAST GUARD PIER (S-5)																				
05/08/74 0755	5050 5050	8.18		9.6 101	46.0F 7.8C	7.5 89 84	--	--	--	--	--	--	1.5 .04	--	--	--	--		0.98A	
08/14/74 0740	5050 5050			7.8 99	61.5F 16.4C	8.1 85 92	--	--	--	--	--	--	1.5 .04	--	--	--	--		0.37A	
G7 L 913.5 004.9 LAKE TAMOE AT CARMELIAN BAY - SIERRA BOAT CO (S-14)																				
05/08/74 0835	5050 5050			9.4 102	48.2F 9.0C	7.5 90 93	--	--	--	--	--	--	1.6 .05	--	--	--	--		0.23A	
08/14/74 0815	5050 5050			7.6 99	63.7F 17.6C	7.9 89 90	--	--	--	--	--	--	1.7 .05	--	--	--	--		0.17A	
G7 L 914.2 002.3 LAKE TAMOE AT KINGS BEACH PIER (S-7)																				
05/08/74 0905	5050 5050			9.6 102	47.1F 8.4C	7.5 88 91	--	--	--	--	--	--	1.6 .05	--	--	--	--		0.29A	
08/14/74 0900	5050 5050			7.6 99	63.7F 17.6C	7.8 90 92	--	--	--	--	--	--	1.7 .05	--	--	--	--		0.26A	
G7 L 914.2 956.6 LAKE TAMOE AT KINGS CASTLE PIER (S-4)																				
05/08/74 1005	5050 5050			9.1 106	53.8F 12.1C	7.5 90 93	--	--	--	--	--	--	1.5 .04	--	--	--	--		0.26A	
08/14/74 0940	5050 5050			7.2 96	65.7F 18.7C	8.0 90 92	--	--	--	--	--	--	1.7 .05	--	--	--	--		0.28A	
G7 1195.00 TRUCKEE RIVER AT FARAD																				
04/30/74 0830	5050 5050	4.66 1750	11.1 109	44 7	F 7.7 C 7.6	95 91	8.9 .44 50	2.2 .18 20	5.4 .23 26	1.2 .03 3	0 .00	46 .75 89	3.1 .06 7	.9 .03 4	.0 .00	.00	--	80 44	31 0	2A 0.4
09/19/74 1100	5050 5050	3.10 587	7.8 95	61 16	F 7.7 C 7.7	84 82	9.2 .46 54	1.9 .16 19	4.6 .20 24	1.3 .03 4	0 .00	44 .72 89	3.0 .06 7	1.0 .03 4	.3 .00	.00	--	58 43	31 0	1A 0.4
G7 3020.01 BURTON CREEK IN STAR HARBOR (T-8)																				
05/01/74 1020	5050 5050			10.4 26E	38.5F 3.6C	7.3 44 48	--	--	--	--	--	--	.5 .01	--	--	--	--		2.8A	
08/07/74 1030	5050 5050			8.0 104	62.8F 17.1C	7.9 92 96	--	--	--	--	--	--	2.5 .07	--	--	--	--		0.45A	

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	O.H. 0 DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				TURB SAR		
						CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	B	F	TDS SUM		TH NCH	
07 3050.01 WARD CREEK NEAR MOUTH (T-5)																				
05/01/74	5050		10.4	37.2F	7.3	44	--	--	--	--	--	--	.0	--	--	--	--	--	2.5A	
0925	5050	140E	96	2.9C	46								.00	--	--	--	--	--		
08/07/74	5050	4.22	8.3	56.7F	7.9	56	--	--	--	--	--	--	.2	--	--	--	--	--	2.0A	
0950	5050	8E	100	13.7C	58								.01	--	--	--	--	--		
07 3160.01 MADDEN CREEK NEAR MOUTH (T-10)																				
05/01/74	5050	1.10	10.3	37.4F	7.4	44	--	--	--	--	--	--	.0	--	--	--	--	--	0.39A	
0850	5050	20E	95	3.0C	47								.00	--	--	--	--	--		
08/07/74	5050	0.83	8.6	52.3F	7.6	44	--	--	--	--	--	--	.0	--	--	--	--	--	0.34A	
0915	5050	7E	98	11.3C	45								.00	--	--	--	--	--		
07 3230.01 THIRD CREEK NEAR MOUTH (T-6)																				
05/01/74	5050	2.38	9.5	45.1F	7.3	65	--	--	--	--	--	--	1.4	--	--	--	--	--	2.5A	
1025	5050	12E	98	7.3C	62								.04	--	--	--	--	--		
08/07/74	5050		8.2	58.1F	7.7	64	--	--	--	--	--	--	.7	--	--	--	--	--	1.4A	
1125	5050	8E	101	14.5C	61								.02	--	--	--	--	--		
07 3253.01 INCLINE CREEK AT INCLINE VILLAGE (T-2)																				
05/01/74	5050		9.7	42.6F	7.3	65	--	--	--	--	--	--	.2	--	--	--	--	--	5.0A	
0950	5050	18E	97	5.9C	61								.01	--	--	--	--	--		
08/07/74	5050		8.4	54.3F	7.7	61	--	--	--	--	--	--	.3	--	--	--	--	--	2.2A	
1050	5050	10E	98	12.4C	58								.01	--	--	--	--	--		
07 3300.01 GENERAL CREEK NEAR WEEKS BAY (T-3)																				
05/01/74	5050		10.5	35.4F	7.0	18	--	--	--	--	--	--	.0	--	--	--	--	--	0.38A	
0820	5050	34E	94	1.9C	19								.00	--	--	--	--	--		
08/07/74	5050		8.1	53.4F	7.2	48	--	--	--	--	--	--	.0	--	--	--	--	--	0.30A	
0835	5050	4E	94	11.9C	51								.00	--	--	--	--	--		
07 3571.01 TAYLOR CREEK NEAR CAMP RICHARDSON (T-4)																				
05/01/74	5050		9.5	41.2F	7.2	26	--	--	--	--	--	--	.0	--	--	--	--	--	0.42A	
0710	5050	150E	93	5.1C	26								.00	--	--	--	--	--		
08/07/74	5050		7.1	63.7F	7.1	24	--	--	--	--	--	--	.1	--	--	--	--	--	0.15A	
0700	5050	12E	93	17.6C	24								.00	--	--	--	--	--		
07 3679.90 EDGEWOOD CREEK AT MOUTH (T-7A)																				
05/01/74	5050		9.1	46.8F	7.3	110	--	--	--	--	--	--	.1	--	--	--	--	--	7.1A	
0815	5050	4E	96	8.2C	106								.00	--	--	--	--	--		
08/07/74	5050		5.6	63.1F	6.8	120	--	--	--	--	--	--	3.5	--	--	--	--	--	3.2	
0800	5050	2E	73	17.3C	123								.10	--	--	--	--	--		
07 3680.00 EDGEWOOD CREEK AT HIGHWAY 50 (T-7)																				
05/01/74	5050	1.10	9.7	41.9F	7.3	112	--	--	--	--	--	--	2.4	--	--	--	--	--	5.5A	
0850	5050	4E	96	5.5C	107								.07	--	--	--	--	--		
08/07/74	5050	0.70	8.8	49.6F	7.5	109	--	--	--	--	--	--	1.4	--	--	--	--	--	2.0A	
0835	5050	4E	97	9.8C	102								.04	--	--	--	--	--		
07 3705.01 UPPER TRUCKEE RIVER NEAR MOUTH (T-1)																				
05/01/74	5050		9.9	38.3F	6.8	22	--	--	--	--	--	--	.3	--	--	--	--	--	3.0A	
0655	5050	75E	93	3.5C	41								.01	--	--	--	--	--		
08/07/74	5050		7.5	58.5F	7.3	58	--	--	--	--	--	--	2.4	--	--	--	--	--	0.35A	
0645	5050	20E	92	14.7C	56								.07	--	--	--	--	--		
07 3810.00 TROUT CREEK AT SOUTH LAKE TAHOE (T-9)																				
05/01/74	5050		9.9	38.5F	6.8	45	--	--	--	--	0	--	.1	--	--	--	--	--	3.8A	
0735	5050	50E	93	3.6C	43					.00			.00	--	--	--	--	--		
08/07/74	5050	1.50	8.7	50.5F	7.5	45	--	--	--	--	0	--	.3	--	--	--	--	--	2.0A	
0730	5050	15E	97	10.3C	43					.00			.01	--	--	--	--	--		
08 2300.00 CARSON RIVER, WEST FORK, AT WOODFORDS																				
04/29/74	5050	2.32	11.4	39 F	7.3	58	5.9	1.6	1.2	.8	0	29	3.6	.0	.1	.00	--	67	21	1A
1015	5050	241	106	4 C	7.5	54	.29	.13	.05	.02	.00	.48	.07	.00	.00	--	--	27	0	0.1
							59	27	10	4		87	13							
09/18/74	5050	0.92	9.2	48 F	7.7	87	9.2	1.9	3.5	1.4	0	46	2.1	.0	.0	.00	--	66	31	0A
1000	5050	24	97	9 C	7.9	82	.46	.16	.15	.04	.00	.75	.04	.00	.00	--	--	41	0	0.3
							57	20	19	5		95	5							

TABLE D-2 (CONTINUED)  
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER								
						Ca	Mg	Na	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS	TH	TURB					
.....																								
G8		3420.20		CARSON RIVER, EAST FORK, AT HIGHWAY 4																				
04/29/74	5050		11.3	43	F 7.7	118	11	3.0	6.5	1.1	0	56	7.4	.0	.1	.10	--	93	40	2A				
1145	5050		110	6	C 7.7	109	.55	.25	.28	.03	.00	.92	.15	.00	.00	--	--	57	0	0.4				
							50	23	25	3		86	14											
09/18/74	5050		9.3	51	F 8.3	128	12	3.6	6.8	1.2	0	64	5.3	.5	.1	.10	--	88	45	0A				
1100	5050		101	11	C 7.9	121	.60	.30	.30	.03	.00	1.05	.11	.01	.00	--	--	61	0	0.4				
							49	24	24	2		90	9	1										
G9		2460.00		WEST WALKER RIVER BELOW LITTLE WALKER RIVER																				
04/29/74	5050	2.15	10.1	49	F 7.7	88	9.4	2.1	4.1	.7	0	45	4.8	.0	.1	.00	--	55	32	1A				
1345	5050	250	112	9	C 7.8	83	.47	.17	.18	.02	.00	.74	.10	.00	.00	--	--	43	0	0.3				
							56	20	21	2		88	12											
09/18/74	5050	1.13	8.5	53	F 8.3	200	14	2.2	23	1.9	0	91	14	4.8	.1	.20	--	127	44	1A				
1300	5050	77	99	12	C 8.2	199	.70	.18	1.00	.05	.00	1.49	.29	.14	.00	--	--	105	0	1.5				
							36	9	52	3		78	15	7										
G9		3200.00		EAST WALKER RIVER NEAR BRIDGEPORT																				
04/29/74	5050	1.75	9.6	50	F 8.1	208	22	4.4	16	2.9	0	103	17	3.7	.4	.10	--	142	73	6A				
1500	5050	222	107	10	C 8.0	213	1.10	.36	.70	.07	.00	1.69	.35	.10	.01	--	--	117	0	0.8				
							49	16	31	3		79	16	5										
09/18/74	5050	1.48	6.2	60	F 8.1	185	23	3.8	9.5	2.8	0	101	8.2	.0	3.3	.10	--	132	73	22A				
1430	5050		78	16	C 7.9	187	1.15	.31	.41	.07	.00	1.66	.17	.00	.05	--	--	100	0	0.5				
							59	16	21	4		88	9	3										

TABLE D-3

MINOR ELEMENT ANALYSIS OF SURFACE WATER

Sampler and Lab Agency Codes

2163 - Department of Water Resources for SWRCB  
5000 - U. S. Geological Survey  
5001 - U. S. Bureau of Reclamation  
5050 - Department of Water Resources

Abbreviations

TIME - Pacific Standard Time on a 24-hour clock  
DEPTH - Depth in feet at which sample was collected  
DISCH - Instantaneous discharge in cubic feet per second  
EC - Electrical conductance in micromhos at 25° Celsius  
TEMP - Water temperature at time of sampling in degrees  
Fahrenheit (F) and Celsius (C)  
PH - Measure of acidity (<7) or alkalinity (>7) of water  
CHROM (ALL) - All chromium  
CHROM (HEX) - Hexavalent chromium  
D - Dissolved  
T - Total

TABLE D-3 (CONTINUED)  
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS IN MILLIGRAMS PER LITER				LEAD	MANGANESE	MERCURY	SILVER
						BARIUM	CADMIUM	CHROM (HEX)	COPPER	IRON		SELENIUM	ZINC
A0 2230.02 SACRAMENTO RIVER ABOVE COLUSA BASIN DRAIN													
04/24/74	5050			14.5C		--	--	--	0.02	T	0.00	--	--
1225	5050		168	8.2	--	0.00	T	--	7.2	T	0.20	--	0.04 T
A0 2630.00 SACRAMENTO RIVER AT HAMILTON CITY													
05/06/74	5050			16.0C		--	--	--	0.01	T	0.00	--	--
0805	5050			7.3	--	0.00	T	--	1.2	T	0.02	--	0.05 T
A0 2785.00 SACRAMENTO RIVER AT BENO BRIDGE													
05/21/74	5050			10.5C		--	--	--	0.01	T	0.00	--	--
0800	5050			7.4	--	0.00	T	--	0.02	T	0.01	--	0.03 T
A0 2933.00 R-D 108 DRAINAGE TO SACRAMENTO RIVER													
04/24/74	5050			15.0C		--	--	--	0.01	T	0.00	--	--
1335	5050		872	8.1	--	0.00	T	--	2.2	T	0.17	--	0.01 T
A0 2947.10 COLUSA BASIN DRAIN NEAR KNIGHTS LANDING													
04/24/74	5050			15.5C		--	--	--	0.01	T	0.00	--	--
1310	5050		825	8.1	--	0.00	T	--	2.4	T	0.11	--	0.01 T
A0 2950.00 R-D 787 DRAINAGE TO COLUSA BASIN DRAIN													
04/24/74	5050			14.5C		--	--	--	0.00	T	0.00	--	--
1250	5050		566	8.1	--	0.00	T	--	2.2	T	0.19	--	0.02 T
A0 2955.00 R-D 787 DRAINAGE TO SACRAMENTO RIVER													
04/24/74	5050			7.4		--	--	--	0.01	T	0.00	--	--
5050			438		--	0.00	T	--	3.2	T	0.14	--	0.02 T
A0 2965.00 R-D 70 DRAINAGE TO SACRAMENTO RIVER													
04/24/74	5050			14.5C		--	--	--	0.01	T	0.01	--	--
1145	5050		1140	8.2	--	0.00	T	--	2.8	T	0.24	--	0.08 T
A0 2972.00 BUTTE SLOUGH NEAR MERIDIAN													
04/24/74	5050			14.0C		--	--	--	0.01	T	0.00	--	--
1100	5050		209	7.2	--	0.00	T	--	4.4	T	0.20	--	0.10 T
A0 2976.00 COLUSA BASIN DRAIN AT HIGHWAY 20													
04/24/74	5050			13.5C		--	--	--	0.02	T	0.01	--	--
0920	5050		522	7.6	--	0.00	T	--	7.5	T	0.28	--	0.04 T
A0 3520.50 COTTONWOOD CREEK AT COTTONWOOD													
04/18/74	5050			12.5C		--	--	--	0.01	T	0.00	--	--
0825	5050		253	7.6	--	0.00	T	--	3.0	T	0.06	--	0.01 T
A0 4321.01 DEER CREEK AT HIGHWAY 99E													
04/22/74	5050			15.5C		--	--	--	0.00	T	0.00	--	--
1315	5050		79	7.6	--	0.00	T	--	0.07	T	0.01	--	0.01 T
A0 4420.50 MILL CREEK NEAR MOUTH NEAR LOS MOLINOS													
05/06/74	5050			15.0C		--	--	--	0.00	T	0.00	--	--
1200	5050			7.4	--	0.00	T	--	0.51	T	0.01	--	0.01 T
A0 7140.10 AMERICAN RIVER AT SACRAMENTO WATER PLANT													
08/19/74	2163			63 F		--	--	--	--	--	--	--	--
0945	5050		46	7.1	--	--	--	--	0.10	T	--	--	--
A0 7180.00 AMERICAN RIVER BELOW NIMBUS DAM													
08/19/74	2163			63 F		--	--	--	--	--	--	--	--
0845	5050		53	7.0	--	--	--	--	0.06	T	--	--	--
A1 1020.00 PIT RIVER NEAR MONTGOMERY CREEK													
05/08/74	5050			13.0C		--	--	--	0.00	T	0.00	--	--
1050	5050			8.1	--	0.00	T	--	0.28	T	0.01	--	0.01 T
A1 1680.00 PIT RIVER NEAR CANBY													
05/08/74	5050			18.5C		--	--	--	0.01	T	0.00	--	--
1335	5050			7.6	--	0.00	T	--	2.8	T	0.06	--	0.01 T
A2 1010.00 SACRAMENTO RIVER AT KESWICK													
04/18/74	5050			8.0C		--	--	--	0.02	T	0.00	--	--
1025	5050		94	7.1	--	0.00	T	--	1.8	T	0.02	--	0.05 T
A3 1110.00 STONY CREEK BELOW BLACK BUTTE DAM													
05/20/74	5050			16.0C		--	--	--	0.00	T	0.00	--	--
1125	5050			8.1	--	0.00	T	--	0.60	T	0.01	--	0.01 T
A3 1250.00 STONY CREEK NEAR FRUTO													
04/22/74	5050			15.5C		--	--	--	0.01	T	0.00	--	--
1110	5050		285	8.0	--	0.00	T	--	3.2	T	0.05	--	0.01 T
A3 6130.00 CLEAR CREEK NEAR IGO													
04/18/74	5050			10.0C		--	--	--	0.01	T	0.00	--	--
0930	5050		71	7.3	--	0.00	T	--	1.2	T	0.02	--	0.01 T

TABLE D-3 (CONTINUED)  
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
A4 1110.00 BUTTE CREEK NEAR CHICO											
05/06/74 0950	5050 5050			12.0C 7.4	--	-- 0.00 T	--	0.00 T 0.10 T	0.00 T 0.01 T	-- --	-- 0.03 T
A4 2110.00 BIG CHICO CREEK NEAR CHICO											
05/06/74 0850	5050 5050			14.5C 7.6	--	-- 0.00 T	--	0.00 T 0.09 T	0.00 T 0.00 T	-- --	-- 0.02 T
A4 8110.00 COW CREEK NEAR MILLVILLE											
05/21/74 1410	5050 5050			17.0C 7.4	--	-- 0.00 T	--	0.00 T 0.17 T	0.00 T 0.01 T	-- --	-- 0.01 T
A8 L 902.7 254.7 1 CLEAR LAKE AT LAKEPORT											
04/04/74 0650	5050 5050			11.0C 7.5	--	-- 0.01 T	--	0.00 T 1.3 T	0.00 T 0.04 T	-- --	-- 0.00 T
A8 1250.00 BEAR CREEK NEAR RUMSEY											
04/04/74 0935	5050 5050			11.0C 8.2	--	-- 0.01 T	--	0.01 T 0.45 T	0.00 T 0.02 T	-- --	-- 0.01 T
A8 1350.00 CACHE CREEK NEAR LOWER LAKE											
04/04/74 0750	5050 5050			11.0C 7.4	--	-- 0.01 T	--	0.00 T 1.4 T	0.00 T 0.03 T	-- --	-- 0.00 T
A8 2050.00 CACHE CREEK, NORTH FORK, NEAR LOWER LAKE											
04/04/74 0845	5050 5050			9.0C 7.7	--	-- 0.00 T	--	0.02 T 12. T	0.01 T 0.25 T	-- --	-- 0.03 T
B0 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS											
10/18/73 0745	5050 5000		390	18.0C 7.2	--	--	--	-- 0.0200 D	--	--	--
11/16/73 0830	5050 5000		500	13.0C 7.4	--	--	--	-- 0.030 D	--	--	--
12/19/73 0900	5050 5000		350	9.0C 7.2	--	--	--	-- 0.050 D	--	--	--
01/30/74 0800	5050 5000		150	8.5C 8.2	--	--	--	-- 0.060 D	--	--	--
02/06/74 1445	5001 5050	3	440	9 C 7.5	0.00 D	-- 0.00 D	--	0.00 D 0.03 D	0.00 D 0.01 D	0.0000 D --	-- --
02/06/74 1446	5001 5050	3	440	9 C 7.5	0.00 T	-- 0.00 T	0.00 T --	0.01 T 1.3 T	0.00 T 0.05 T	0.0000 T --	-- --
02/22/74 0740	5050 5000		350	9.0C 7.3	--	--	--	-- 0.030 D	--	--	--
03/21/74 0730	5050 5000		500	13.0C 7.2	--	--	--	-- 0.000 D	--	--	--
04/18/74 0730	5050 5000		400	14.0C 7.7	--	--	--	-- 0.040 D	--	--	--
05/08/74 1030	5001 5050	3	495	20 C 7.7	0.00 D	-- 0.00 D	0.00 D --	0.00 D 0.04 D	0.00 D 0.00 D	-- --	-- --
05/08/74 1031	5001 5050	3	495	20 C 7.7	0.00 T	-- 0.00 T	0.01 T --	0.01 T 3.0 T	0.01 T 0.16 T	0.0000 T --	-- --
05/24/74 0800	5050 5000		500	20 C 7.6	--	--	--	-- 0.030 D	--	--	--
06/20/74 0645	5050 5000		400	20 C 7.2	--	--	--	-- 0.030 D	--	--	--
07/25/74 0735	5050 5000		900	27 C 7.6	--	--	--	-- 0.030 D	--	--	--
09/04/74 1125	5001 5050	3	550	22 C 7.6	0.00 D	-- 0.00 D	0.00 D --	0.01 D 0.04 D	0.00 D 0.03 D	-- --	-- 0.01 D
09/04/74 1126	5001 5050	3	550	22 C 7.6	0.00 T	-- 0.00 T	0.01 T --	0.01 T 3.9 T	0.00 T 0.22 T	0.0000 T --	-- 0.02 T
B9 D 749.8 133.2 WEST CANAL AT MOUTH OF INTAKE TO CLIFTON CT FOREBAY											
02/06/74 1310	5001 5050	3	408	9 C 7.4	0.00 D	-- 0.00 D	--	0.00 D 0.03 D	0.00 D 0.01 D	0.0000 D --	-- --
02/06/74 1311	5001 5050	3	408	9 C 7.4	0.00 T	-- 0.00 T	0.00 T --	0.01 T 1.6 T	0.00 T 0.08 T	0.0000 T --	-- --
05/09/74 1130	5001 5050	3	365	20 C 7.8	0.00 D	-- 0.00 D	0.00 D --	0.00 D 0.03 D	0.00 D 0.00 D	-- --	-- --
05/09/74 1131	5001 5050	3	365	20 C 7.8	0.00 T	-- 0.00 T	0.00 T --	0.00 T 2.1 T	0.00 T 0.07 T	0.0003 T --	-- --
09/05/74 1140	5001 5050	3	243	23 C 7.7	0.00 D	-- 0.00 D	0.00 D --	0.01 D 0.04 D	0.00 D 0.01 D	-- --	-- 0.00 D
09/05/74 1141	5001 5050	3	243	23 C 7.7	0.02 T	-- 0.00 T	0.00 T --	0.01 T 1.6 T	0.00 T 0.06 T	0.0001 T --	-- 0.01 T

TABLE D-3 (CONTINUED)  
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	BARIUM CADMIUM	CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
89 D 753.5 129.3 MIDDLE RIVER AT BORDEN HIGHWAY											
02/06/74 1055	5001 5050	3	413	8 C 7.3	0.00 D	0.00 D	--	0.00 D 0.36 D	0.00 D 0.01 D	0.0000 D --	--
02/06/74 1056	5001 5050	3	413	8 C 7.3	0.00 T	0.00 T	0.00 T	0.01 T 1.7 T	0.01 T 0.08 T	0.0000 T --	--
89 D 758.7 122.9 SAN JOAQUIN RIVER AT BUCKLEY COVE											
02/06/74 1000	5001 5050	2	403	9 C 7.2	0.00 D	0.00 D	--	0.01 D 0.09 D	0.01 D 0.01 D	0.0000 D --	--
02/06/74 1001	5001 5050	2	403	9 C 7.2	0.00 T	0.00 T	0.01 T	0.00 T 1.2 T	0.01 T 0.07 T	0.0000 T --	--
05/09/74 0750	5001 5050	3	430	19 C 7.5	0.00 D	0.00 D	0.00 D	0.00 D 0.02 D	0.00 D 0.00 D	-- --	--
05/09/74 0751	5001 5050	3	430	19 C 7.5	0.00 T	0.00 T	0.00 T	0.00 T 1.3 T	0.00 T 0.09 T	0.0002 T --	--
09/05/74 0925	5001 5050	3	504	25 C 7.7	0.00 D	0.00 D	0.00 D	0.01 D 0.01 D	0.00 D 0.00 D	-- --	0.01 D
09/05/74 0926	5001 5050	3	504	25 C 7.7	0.02 T	0.00 T	0.00 T	0.01 T 0.66 T	0.00 T 0.05 T	0.0000 T --	0.01 T
89 D 801.1 142.6 BIG BREAK NEAR OAKLEY											
02/13/74 1040	5001 5050	3	194	9 C 7.6	0.00 D	0.00 D	--	0.00 D 0.24 D	0.00 D 0.00 D	-- --	--
02/13/74 1041	5001 5050	3	194	9 C 7.6	0.00 T	0.00 T	0.01 T	0.01 T 1.7 T	0.00 T 0.04 T	0.0001 T --	--
05/01/74 1350	5001 5050	3	165	18 C 8.1	0.00 D	0.00 D	0.00 D	0.00 D 0.04 D	0.00 D 0.00 D	-- --	--
05/01/74 1351	5001 5050	3	165	18 C 8.1	0.00 T	0.00 T	0.00 T	0.01 T 2.3 T	0.00 T 0.04 T	0.0002 T --	--
09/11/74 1510	5001 5050	3	194	23 C 8.2	0.00 D	0.00 D	0.00 D	0.01 D 0.01 D	0.00 D 0.00 D	-- --	0.00 D
09/11/74 1511	5001 5050	3	194	23 C 8.2	0.00 T	0.00 T	0.01 T	0.00 T 1.8 T	0.00 T 0.04 T	0.0001 T --	0.01 T
89 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL											
02/13/74 0940	5001 5050	3	173	9 C 7.6	0.00 D	0.00 D	--	0.00 D 0.04 D	0.00 D 0.00 D	-- --	--
02/13/74 0941	5001 5050	3	173	9 C 7.6	0.08 T	0.00 T	0.01 T	0.01 T 2.4 T	0.00 T 0.06 T	0.0001 T --	--
05/01/74 1320	5001 5050	3	169	17 C 7.6	0.00 D	0.00 D	0.00 D	0.00 D 0.05 D	0.00 D 0.00 D	-- --	--
05/01/74 1321	5001 5050	3	169	17 C 7.6	0.00 T	0.00 T	0.01 T	0.01 T 1.9 T	0.00 T 0.04 T	0.0001 T --	--
09/11/74 1440	5001 5050	3	218	22 C 8.0	0.00 D	0.00 D	0.00 D	0.01 D 0.02 D	0.00 D 0.00 D	-- --	0.01 D
09/11/74 1441	5001 5050	3	218	22 C 8.0	0.02 T	0.00 T	0.00 T	0.00 T 1.3 T	0.00 T 0.03 T	0.0001 T --	0.00 T
89 D 801.6 145.2 SAN JOAQUIN RIVER AT ANTIOCH BRIDGE (AT LIGHT 12)											
02/13/74 1015	5001 5050	3	194	9 C 7.5	0.00 D	0.00 D	--	0.00 D 0.05 D	0.00 D 0.00 D	-- --	--
02/13/74 1016	5001 5050	3	194	9 C 7.5	0.00 T	0.00 T	0.01 T	0.01 T 2.1 T	0.00 T 0.04 T	0.0001 T --	--
89 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT											
02/13/74 1110	5001 5050	3	193	9 C 7.6	0.00 D	0.00 D	--	0.00 D 0.04 D	0.00 D 0.00 D	-- --	--
02/13/74 1111	5001 5050	3	193	9 C 7.6	0.00 T	0.00 T	0.01 T	0.01 T 1.8 T	0.00 T 0.04 T	0.000 T --	--
05/01/74 1410	5001 5050	3	161	17 C 7.7	0.00 D	0.00 D	0.00 D	0.00 D 0.05 D	0.00 D 0.00 D	-- --	--
05/01/74 1411	5001 5050	3	161	17 C 7.7	0.01 T	0.00 T	0.00 T	0.01 T 1.3 T	0.00 T 0.03 T	0.0000 T --	--
09/12/74 1635	5001 5050	3	180	22 C 8.0	0.00 D	0.00 D	0.00 D	0.01 D 0.03 T	0.00 D 0.00 D	-- --	0.00 D
09/12/74 1636	5001 5050	3	180	22 C 8.0	0.00 T	0.00 T	0.01 T	0.00 T 1.1 T	0.00 T 0.02 T	0.0000 T --	0.01 T
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO											
02/14/74 1010	5001 5050	3	148	9 C 7.6	0.00 D	0.00 D	--	0.01 D 0.05 D	0.00 D 0.00 D	-- --	--
02/14/74 1011	5001 5050	3	148	9 C 7.6	0.00 T	0.00 T	0.02 T	0.01 T 2.2 T	0.00 T 0.05 T	0.0000 T --	--
04/30/74 1035	5001 5050	3	162	16 C 7.5	0.00 D	0.00 D	0.00 D	0.00 D 0.05 D	0.00 D 0.00 D	-- --	--
04/30/74 1036	5001 5050	3	162	16 C 7.5	0.01 T	0.00 T	0.00 T	0.01 T 1.8 T	0.00 T 0.03 T	0.0000 T --	--
09/12/74 1315	5001 5050	3	208	22 C 7.9	0.01 D	0.00 D	0.00 D	0.01 D 0.03 D	0.00 D 0.00 D	-- --	0.02 D

TABLE D-3 (CONTINUED)  
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	CONSTITUENTS IN MILLIGRAMS PER LITER						LEAD	MERCURY	SILVER
					ARSENIC	BARIUM CADMIUM	CHROM (ALL) CHROM (HEX)	COPPER IRON	MANGANESE	SELENIUM	ZINC		
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO													
CONTINUED													
09/12/74 1316	5001 5050	3	208	22 C 7.9	0.01 T	-- 0.00 T	0.01 --	0.01 T 1.8 T	0.00 T 0.05 T	0.0001 --	-- 0.01 T		
89 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATO POINT													
02/13/74 1205	5001 5050	3	164	9 C 7.5	0.00 D	-- 0.00 D	-- --	0.00 D 0.05 D	0.00 D 0.00 D	-- --	-- --		
02/13/74 1206	5001 5050	3	164	9 C 7.5	0.02 T	-- 0.00 T	0.01 T --	0.01 T 1.9 T	0.00 T 0.04 T	0.0000 T --	-- --		
04/30/74 1315	5001 5050	3	145	16 C 7.3	0.00 D	-- 0.00 D	0.00 D --	0.00 D 0.04 D	0.00 D 0.00 D	-- --	-- --		
04/30/74 1316	5001 5050	3	145	16 C 7.3	0.00 T	-- 0.00 T	0.00 T --	0.01 T 1.5 T	0.00 T 0.03 T	0.0000 T --	-- --		
09/12/74 1550	5001 5050	3	155	22 C 7.8	0.00 D	-- 0.00 D	0.00 D --	0.00 D 0.03 D	0.00 D 0.00 D	-- --	-- 0.00 D		
09/12/74 1551	5001 5050	3	155	22 C 7.8	0.00 T	-- 0.00 T	0.00 T --	0.01 T 0.83 T	0.00 T 0.02 T	0.0000 T --	-- 0.01 T		
89 D 809.4 141.0 SACRAMENTO RIVER BELOW RIO VISTA BRIDGE													
02/14/74 1055	5001 5050	3	148	9 C 7.6	0.00 D	-- 0.00 D	-- --	0.00 D 0.03 D	0.00 D 0.00 D	-- --	-- --		
02/14/74 1056	5001 5050	3	148	9 C 7.6	0.00 T	-- 0.00 T	0.01 T --	0.02 T 3.0 T	0.00 T 0.06 T	0.0000 T --	-- --		
04/30/74 1150	5001 5050	3	160	15 C 7.5	0.00 D	-- 0.00 D	0.00 D --	0.00 D 0.06 D	0.00 D 0.00 D	-- --	-- --		
04/30/74 1151	5001 5050	3	160	15 C 7.5	0.00 T	-- 0.00 T	0.00 T --	0.01 T 1.6 T	0.00 T 0.03 T	0.0000 T --	-- --		
09/12/74 1425	5001 5050	3	161	21 C 7.8	0.00 D	-- 0.00 D	0.00 D --	0.01 D 0.03 D	0.00 D 0.00 D	-- --	-- 0.00 D		
09/12/74 1426	5001 5050	3	161	21 C 7.8	0.00 T	-- 0.00 T	0.01 T --	0.01 T 1.0 T	0.00 T 0.02 T	0.0000 T --	-- 0.01 T		
89 D 815.3 126.3 MOKELUMNE RIVER NEAR THORNTON													
02/07/74 0915	5001 5050	3	100	7 C 6.8	0.00 D	-- 0.00 D	-- --	0.01 D 0.09 D	0.00 D 0.01 D	0.0000 D --	-- --		
02/07/74 0916	5001 5050	3	100	7 C 6.8	0.00 T	-- 0.00 T	0.00 T --	0.01 T 1.8 T	0.00 T 0.04 T	0.0000 T --	-- --		
05/08/74 0600	5001 5050	3	62	18 C 6.8	0.00 D	-- 0.00 D	0.00 D --	0.01 D 0.04 D	0.00 D 0.00 D	-- --	-- --		
05/08/74 0601	5001 5050	3	62	18 C 6.8	0.00 T	-- 0.00 T	0.00 T --	0.00 T 0.92 T	0.00 T 0.03 T	0.0000 T --	-- --		
09/04/74 0710	5001 5050	3	46	20 C 7.0	0.00 D	-- 0.00 D	0.00 D --	0.01 D 0.04 D	0.00 D 0.02 D	-- --	-- 0.01 D		
09/04/74 0711	5001 5050	3	46	20 C 7.0	0.00 T	-- 0.00 T	0.00 T --	0.00 T 0.38 T	0.00 T 0.02 T	0.0001 T --	-- 0.01 T		
89 D 820.7 132.7 SACRAMENTO RIVER AT GHEENES LANDING													
10/17/73 1230	5050 5050	1.5	118	62 F 7.4	0.00 D	-- --	0.00 D --	0.00 D 0.02 D	0.00 D 0.00 D	-- 0.00 D	-- 0.00 D		
11/14/73 1330	5050 5050	1.5	89	56 F 7.2	0.00 D	-- --	0.00 D --	0.01 D 0.26 D	0.01 D 0.01 D	-- 0.00 D	-- 0.01 D		
12/19/73 1215	5050 5050		122	48 F 7.2	-- --	-- --	0.00 D --	0.00 D 0.02 D	0.00 D 0.00 D	-- 0.00 D	-- 0.04 D		
01/16/74 1040	5050 5050		105	48 F 7.2	0.00 D	-- --	0.00 D --	0.00 D 0.11 D	0.00 D 0.00 D	-- 0.01 D	-- 0.00 D		
02/07/74 0725	5001 5050	3	123	7 C 7.3	0.00 D	-- 0.00 D	-- --	0.01 D 0.08 D	0.00 D 0.00 D	0.0000 D --	-- --		
02/07/74 0726	5001 5050	3	123	7 C 7.3	0.00 T	-- 0.00 T	0.01 T --	0.01 T 5.1 T	0.00 T 0.09 T	-- --	-- --		
02/20/74 0900	5050 5050		119	48 F 7.3	0.00 D	-- --	0.00 D --	0.00 D 0.09 D	0.00 D 0.00 D	-- 0.00 D	-- 0.00 D		
03/20/74 1130	5050 5050		103	54 F 7.3	0.00 D	-- --	-- --	0.00 D 0.02 D	0.00 D 0.00 D	-- 0.00 D	-- 0.02 D		
04/17/74 1220	5050 5050		106	57 F 7.3	0.01 D	-- --	-- --	0.01 D 0.11 D	0.00 D 0.00 D	-- 0.00 D	-- 0.00 D		
05/09/74 0650	5001 5050	3	137	17 C 7.1	0.00 D	-- 0.00 D	0.00 D --	0.00 D 0.03 D	0.00 D 0.00 D	-- --	-- --		
05/09/74 0651	5001 5050	3	137	17 C 7.1	0.00 T	-- 0.00 T	0.00 T --	0.00 T 1.1 T	0.00 T 0.03 T	0.0005 T --	-- --		
05/15/74 1130	5050 5050		106	61 F 7.2	0.00 D	-- --	-- --	0.00 D 0.08 D	0.00 D 0.00 D	-- 0.00 D	-- 0.00 D		
06/19/74 1300	5050 5050		103	67 F 7.3	0.00 D	-- --	-- --	0.00 D 0.04 D	0.00 D 0.00 D	-- 0.00 D	-- 0.00 D		
07/17/74 1140	5050 5050		133	71 F 7.3	0.00 D	-- --	-- --	0.00 D 0.03 D	0.00 D 0.00 D	-- 0.01 D	-- 0.00 D		
08/21/74 1030	5050 5050		130	68 F 7.3	0.02 D	-- --	-- --	0.01 D 0.09 D	0.00 D 0.01 D	-- 0.01 D	-- 0.02 D		



TABLE D-3 (CONTINUED)  
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	BARIUM CADMIUM	CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
B9 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING											
CONTINUED											
09/05/74 0740	5001 5050	3	159	20 C 7.4	0.00 D	-- 0.00 D	0.00 D --	0.01 D 0.03 D	0.00 O 0.01 O	-- --	-- 0.01 O
09/05/74 0741	5001 5050	3	159	20 C 7.4	0.00 T	-- 0.00 T	0.01 T --	0.01 T 0.98 T	0.00 T 0.03 T	0.0000 T --	-- 0.01 T
09/10/74 1315	5050 5050		146	68 F 7.2	0.00 D	-- --	-- 0.00 D	0.00 D 0.07 D	0.00 O 0.01 O	-- 0.00 O	-- 0.00 O
04 1590.01 SUSAN RIVER NEAR LITCHFIELD											
05/09/74 0755	5050 5050			13.0C 7.4	--	-- 0.00 T	-- --	0.01 T 3.1 T	0.00 T 0.16 T	-- --	-- 0.02 T
04 1600.00 SUSAN RIVER AT SUSANVILLE											
05/09/74 0650	5050 5050			10.0C 7.5	--	-- 0.00 T	-- --	0.01 T 2.7 T	0.00 T 0.09 T	-- --	-- 0.01 T
06 1705.00 LONG VALLEY CREEK NEAR HALLELUJAH JUNCTION											
05/09/74 1015	5050 5050			16.5C 8.1	--	-- 0.00 T	-- --	0.01 T 0.61 T	0.00 T 0.04 T	-- --	-- 0.01 T

TABLE D-4

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF SURFACE WATER

Sampler and Lab Agency Codes

5000 - U. S. Geological Survey  
5050 - Department of Water Resources

Abbreviations

TIME - Pacific Standard Time on a 24-hour clock  
DEPTH - Depth in feet at which sample was collected  
DISCH - Instantaneous discharge in cubic feet per second  
EC - Electrical conductance in micromhos at 25° Celsius  
TEMP - Water temperature at time of sampling in degrees  
Fahrenheit (F) and Celsius (C)  
PH - Measure of acidity (<7) or alkalinity (>7) of water  
D - Dissolved  
T - Total

TABLE D-4 (CONTINUED)  
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP °F	ALUMINUM	ANTIMONY BERYLLIUM	BISMUTH COBALT	PER LITER GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM
80 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS											
10/18/73	5050			18.0C		--	--	--	0.0000 D	--	--
0745	5000		390	7.2	--	--	--	--	--	0.3300 D	--
11/16/73	5050			13.0C		--	--	--	0.000 D	--	--
0830	5000		500	7.4	--	--	--	--	--	0.410 D	--
12/19/73	5050			9.0C		--	--	--	0.000 D	--	--
0900	5000		350	7.2	--	--	--	--	--	0.240 D	--
01/30/74	5050			8.5C		--	--	--	0.000 D	--	--
0800	5000		150	8.2	--	--	--	--	--	0.190 D	--
02/22/74	5050			9.0C		--	--	--	0.000 D	--	--
0740	5000		350	7.3	--	--	--	--	--	0.320 D	--
03/21/74	5050			13.0C		--	--	--	0.000 D	--	--
0730	5000		500	7.2	--	--	--	--	--	--	--
04/18/74	5050			14.0C		--	--	--	0.020 D	--	--
0730	5000		400	7.7	--	--	--	--	--	0.280 D	--
05/24/74	5050			20 C		--	--	--	0.010 D	--	--
0800	5000		500	7.6	--	--	--	--	--	0.370 D	--
06/20/74	5050			20 C		--	--	--	0.000 D	--	--
0645	5000		400	7.2	--	--	--	--	--	0.250 D	--
07/25/74	5050			27 C		--	--	--	0.010 D	--	--
0735	5000		900	7.6	--	--	--	--	--	0.470 D	--

89 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING

10/17/73	5050			62 F		--	--	--	0.000 D	--	--
1230	5000	1.5	118	7.4	--	--	--	--	--	0.100 D	--
11/14/73	5050			56 F		--	--	--	0.000 D	--	--
1330	5000	1.5	89	7.2	--	--	--	--	--	0.070 D	--
12/19/73	5050			48 F		--	--	--	0.000 D	--	--
1215	5000		122	7.2	--	--	--	--	--	0.090 D	--
01/16/74	5050			48 F		--	--	--	0.000 D	--	--
1040	5000		105	7.2	--	--	--	--	--	0.050 D	--
02/20/74	5050			48 F		--	--	--	0.000 D	--	--
0900	5000		119	7.3	--	--	--	--	--	0.080 D	--

TABLE D-5

## MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Sampler and Lab Agency Codes

2163 - Department of Water Resources for SWRCB  
 5001 - U. S. Bureau of Reclamation  
 5050 - Department of Water Resources  
 5060 - Department of Health

Abbreviations and Constituents

TIME - Pacific Standard Time on a 24-hour clock  
 TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) or Celsius (C)  
 EC - Electrical conductance in micromhos at 25° Celsius  
 DO - Dissolved oxygen content in milligrams per liter  
 G.H. - Instantaneous gage height in feet above an established datum  
 PH - Measure of acidity (<7) or alkalinity (>7) of water: F - Field; L - Lab  
 DISCH - Instantaneous discharge in cubic feet per second  
 MBAS - Methylene blue active substance (a test for detergent surfactants) in milligrams per liter: L - Linear alkylate sulfonate; A - Alkyl benzene sulfonate  
 DEPTH - Depth in feet at which sample was collected  
 TURB - Jackson Turbidity Units  
 T+L - Tannin and lignin as tannic acid in milligrams per liter  
 CHLOR - Field determination of residual chlorine in milligrams per liter  
 O+G - Oil and grease in milligrams per liter  
 COLOR - True color in color units  
 SET S - Settleable solids in milliliters per liter (ML/L) and milligrams per liter (MG/L): F - Field; L - Lab  
 BOD - Biochemical oxygen demand in milligrams per liter: A - 4 days; B - 5 days; C - 6 days; D - 7 days; E - 100 days; F - other  
 SUS S - Suspended solids in milligrams per liter: 5 - at 105°C; 8 - at 180°C  
 COD - Chemical oxygen demand in milligrams per liter  
 V SUS S - Volatile suspended solids in milligrams per liter  
 CYANIDE - Cyanide in milligrams per liter  
 PHENOLS - Phenols in milligrams per liter  
 TOC - Total organic carbon in milligrams per liter  
 DOC - Dissolved organic carbon in milligrams per liter  
 IODIDE - Iodide in milligrams per liter  
 T ODOR - Threshold odor number at 60°C  
 BROMIDE - Bromide in milligrams per liter  
 SULFITE - Sulfite in milligrams per liter  
 T SULF - Total sulfides in milligrams per liter  
 D SULF - Dissolved sulfides in milligrams per liter  
 CC EXT - Carbon chloroform extract  
 CA EXT - Carbon alcohol extract

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MBAS	DEPTH TURR	T+L CHLOR	0+8 COLOR	ML/L MG/L	80D SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	10010E T ODOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
A0 7140.10 AMERICAN RIVER AT SACRAMENTO WATER PLANT																	
08/19/74 0945	2163 5050	63 F 46	8.8	7.1	--	--	--	--	--	2 5	0	--	--	--	--	--	--
08/19/74 0946	2163 5060	63 F 46	8.8	7.1	--	--	--	--	--	--	--	--	2	--	--	--	--
A0 7160.00 AMERICAN RIVER BELOW NIMBUS DAM																	
08/19/74 0845	2163 5050	63 F 53	8.0	7.0	--	--	--	--	--	0 5	1	--	--	--	--	--	--
08/19/74 0846	2163 5060	63 F 53	8.0	7.0	--	--	--	--	--	--	--	--	2	--	--	--	--
B0 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS																	
10/15/73 1600	5001 5050	19 C 565	7.1	7.9 7.7	--	3	--	--	--	39 5	11	--	--	--	--	--	--
10/18/73 0745	5050 5050	18 C 390	7.7 12.17	7.2	--	--	--	--	--	7.1 8	17	--	--	--	--	--	--
11/13/73 1620	5001 5050	15 C 605	7.3	7.7 7.8	--	3	--	--	--	38 5	10	--	--	--	--	--	--
11/15/73 0830	5050 5050	13 C 500	7.8 13.50	7.4	--	--	--	--	--	2.9 8	15	--	--	--	--	--	--
12/11/73 1800	5001 5050	9 C 585	9.7	7.7 7.9	--	3	--	--	--	19 5	2	--	--	--	--	--	--
12/19/73 0900	5050 5050	9 C 350	9.9 12.67	7.2	--	--	--	--	--	3.2 0	2	--	--	--	--	--	--
01/09/74 1540	5001 5050	7 C 250	9.8	7.1 7.5	--	3	--	--	--	56 5	8	--	--	--	--	--	--
01/30/74 0800	5050 5050	47 F 150	11.0 12.42	8.2	--	--	--	--	--	1.6 8	4	--	--	--	--	--	--
02/06/74 1445	5001 5050	9 C 440	10.0	7.5	--	3	--	--	--	34 5	10	--	--	--	--	--	--
02/22/74 0740	5050 5050	9.0C 350	10.7 13.59	7.3	--	--	--	--	--	1.6 8	4	--	--	--	--	--	--
03/21/74 0730	5050 5050	13 C 500	9.6 13.90	7.2	--	--	--	--	--	2.7 8	10	--	--	--	--	--	--
03/25/74 1200	5001 5050	14 C 545	8.7	7.6	--	3	--	--	--	40 5	9	--	--	--	--	--	--
04/09/74 1130	5001 5050	14 C 375	8.9	7.5	--	1	--	--	--	50 5	6	--	--	--	--	--	--
04/16/74 0730	5050 5050	14 C 400	9.7 15.32	7.7	--	--	--	--	--	2.4 8	5	--	--	--	--	--	--
04/24/74 1020	5001 5050	15 C 602	8.2	7.6	--	3	--	--	--	84 5	10	--	--	--	--	--	--
05/08/74 1030	5001 5050	20 C 495	8.5	7.7	--	3	--	--	--	66 5	8	--	--	--	--	--	--
05/22/74 1005	5001 5050	18 C 470	7.9	7.4	--	3	--	--	--	74 5	10	--	--	--	--	--	--
05/24/74 0800	5050 5050	20 C 500	8.5 12.40	7.6	--	--	--	--	--	3.8 8	15	--	--	--	--	--	--
06/05/74 0925	5001 5050	21 C 302	8.4	7.5	--	3	--	--	--	58 5	8	--	--	--	--	--	--
06/20/74 0845	5050 5050	20 C 400	8.0 13.38	7.2	--	--	--	--	--	2.6 8	18	--	--	--	--	--	--
06/24/74 1300	5001 5050	24 C 675	9.3	7.9	--	3	--	--	--	87 5	16	--	--	--	--	--	--
07/08/74 1230	5001 5050	22 C 815	9.4	8.6	--	3	--	--	--	154 5	20	--	--	--	--	--	--
07/22/74 1325	5001 5050	25 C 810	10.4	8.3	--	3	--	--	--	167 5	21	--	--	--	--	--	--
07/25/74 0735	5050 5050	27 C 900	7.2 10.55	7.6	--	--	--	--	--	5.0 8	29	--	--	--	--	--	--
08/06/74 1145	5001 5050	26 C 825	8.5	8.2	--	3	--	--	--	177 5	20	--	--	--	--	--	--
08/22/74 0750	5050 5050	23 C 600	7.4 10.95	7.2	--	--	--	--	--	4.1 8	23	--	--	--	--	--	--
08/22/74 1325	5001 5050	24.0C 495	8.5	7.9	--	3	--	--	--	93 5	8	--	--	--	--	--	--
09/04/74 1125	5001 5050	22 C 550	7.3	7.6	--	3	--	--	--	57 5	10	--	--	--	--	--	--
09/18/74 1040	5001 5050	22 C 460	7.3	7.4	--	3	--	--	--	32 5	6	--	--	--	--	--	--
09/19/74 0700	5050 5050	19.0C 338	7.6 12.88	7.2	--	--	--	--	--	4.2 8	12	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	0+0 COLOR	SET S ML/L MO/L	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
B2 0180.01 JACKSON CREEK AT JAPUR ROAD BRIDGE																	
10/25/73 1050	2163 5050	50 F 218	11.1	7.3 6.5	--	--	--	--	--	1.7 B	--	--	--	--	--	--	--
11/28/73 0845	2163 5050	43 F 210	12.0	7.4 7.7	13.7	--	--	--	--	1.2 B	--	--	--	--	--	--	--
06/12/74 1045	2163 5050	68 F 202	10.6	8.1	7.0	--	--	--	--	1.1 B	--	--	--	--	--	--	--
B2 0185.01 JACKSON CREEK BELOW CITY OF JACKSON STP																	
10/25/73 0920	2163 5050	49 F 178	11.1	7.2 7.1	--	--	--	--	--	1.6 B	--	--	--	--	--	--	--
11/28/73 1000	2163 5050	45 F 218	11.6	7.3 7.8	12.3	--	--	--	--	2.4 B	--	--	--	--	--	--	--
06/12/74 1000	2163 5050	68 F 182	8.6	7.3	7.5	--	--	--	--	2.0 B	--	--	--	--	--	--	--
B2 0190.20 JACKSON CREEK ABOVE CITY OF JACKSON STP																	
10/25/73 0845	2163 5050	47 F 160	10.3	7.3 6.3	--	--	--	--	--	1.4 B	--	--	--	--	--	--	--
11/28/73 1030	2163 5050	44 F 190	12.1	7.3 7.9	10.9	--	--	--	--	1.6 B	--	--	--	--	--	--	--
06/12/74 0930	2163 5050	67 F 158	9.5	7.8	6.5	--	--	--	--	0.8 B	--	--	--	--	--	--	--
B2 0191.01 JACKSON CREEK ABOVE SOUTH FORK JACKSON CREEK																	
06/12/74 0850	2163 5050	63 F 190	8.3	7.3	0.8	--	--	--	--	0.9 B	--	--	--	--	--	--	--
B2 0192.01 JACKSON CREEK NEAR AMADOR COUNTY HOSPITAL																	
06/12/74 0720	2163 5050	65 F 183	6.4	7.1	0.6	--	--	--	--	0.6 B	--	--	--	--	--	--	--
B2 0193.01 JACKSON CREEK BELOW NEW YORK GULCH																	
06/12/74 0800	2163 5050	64 F 163	8.8	7.3	1.0	--	--	--	--	0.5 B	--	--	--	--	--	--	--
B9 D 747.2 118.4 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE																	
10/09/73 0820	5050 5050	16.5C 727	5.6	--	--	3	--	--	--	4.0 B 30 S	-- 7	--	--	--	--	--	--
10/18/73 0725	5050 5050	18 C 555	6.1	--	--	3	--	--	--	5.2 B 41 S	-- 5	--	--	--	--	--	--
10/26/73 0905	5050 5050	16.5C 450	6.6	--	--	3	--	--	--	4.8 B 24 S	-- 6	--	--	--	--	--	--
11/15/73 1320	5050 5050	14.5C 636	7.5	--	--	3	--	--	--	22 S	4	--	--	--	--	--	--
12/13/73 1345	5050 5050	10.5C 495	9.4	--	--	3	--	--	--	36 S	4	--	--	--	--	--	--
03/25/74 1110	5001 5050	14 C 575	8.7	7.6	--	3	--	--	--	2.1 B 43 S	-- 12	--	--	--	--	--	--
04/09/74 1045	5001 5050	14 C 340	9.0	7.6	--	3	--	--	--	2.3 B 52 S	-- 6	--	--	--	--	--	--
04/24/74 0945	5001 5050	15 C 560	8.5	7.4	--	3	--	--	--	29 S	5	--	--	--	--	--	--
05/08/74 0950	5001 5050	20 C 510	8.7	7.8	--	3	--	--	--	2.9 B 47 S	-- 7	--	--	--	--	--	--
05/22/74 0855	5001 5050	17 C 375	8.3	7.2	--	3	--	--	--	51 S	6	--	--	--	--	--	--
06/05/74 0825	5001 5050	20 C 260	8.1	7.7	--	3	--	--	--	2.0 B 64 S	-- 9	--	--	--	--	--	--
06/24/74 1210	5001 5050	23 C 710	9.4	7.8	--	3	--	--	--	55 S	14	--	--	--	--	--	--
07/08/74 1140	5001 5050	22 C 840	8.4	8.7	--	3	--	--	--	5.3 B 67 S	-- 12	--	--	--	--	--	--
07/22/74 1225	5001 5050	25 C 840	9.4	8.4	--	3	--	--	--	72 S	14	--	--	--	--	--	--
08/06/74 1055	5001 5050	26 C 790	8.4	8.0	--	3	--	--	--	4.8 B 65 S	-- 13	--	--	--	--	--	--
08/22/74 1250	5001 5050	24.0C 711	8.8	8.0	--	3	--	--	--	59 S	6	--	--	--	--	--	--
09/04/74 1040	5001 5050	23 C 580	7.7	7.7	--	3	--	--	--	3.5 B 43 S	-- 9	--	--	--	--	--	--
09/06/74 1250	5050 5050	26 C 700	8.5	--	--	3	--	--	--	72 S	19	--	--	--	--	--	--
09/06/74 1355	5050 5050	24 C 580	8.0	--	--	3	--	--	--	43 S	8	--	--	--	--	--	--
09/18/74 1000	5001 5050	22 C 550	7.7	7.5	--	3	--	--	--	39 S	8	--	--	--	--	--	--
09/26/74 0720	5050 5050	19 C 365	7.2	--	--	3	--	--	--	3.5 B	--	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MBAS	DEPTH TURB	TOL CHLOR	0+G COLOR	SET 5 ML/L MO/L	BOD SUS S	COD SUS S	CYANIDE PHENOLS	TOC DOC	IOOIDE T ODOR	BROMIDE SULFITE	T SULF O SULF	CC EXT CA EXT
B9 D 747.2 11A.4 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE																	
CONTINUED																	
09/26/74 0721	5050 5050	19 C 365	7.2		--	3	--	--	--	7.7 F	--	--	--	--	--	--	--
B9 D 748.0 125.2 SUGAR CUT AT MOUTH																	
10/09/73 0740	5050 5050	17 C 821	4.8		--	3	--	--	--	3.0 B 28 S	-- 7	--	--	--	--	--	--
10/18/73 0735	5050 5050	18 C 580	4.7		--	3	--	--	--	6.0 B 19 S	-- 4	--	--	--	--	--	--
10/26/73 0825	5050 5050	16 C 530	5.3		--	3	--	--	--	3.9 B 27 S	-- 9	--	--	--	--	--	--
11/15/73 1225	5050 5050	14 C 662	6.4		--	3	--	--	--	36 S	12	--	--	--	--	--	--
12/13/73 1230	5050 5050	10 C 528	8.8		--	3	--	--	--	23 S	3	--	--	--	--	--	--
B9 D 748.3 126.9 OLD RIVER AT TRACY ROAD BRIDGE																	
10/15/73 1335	5001 5050	19 C 595	5.3	7.5 7.9	--	3	--	--	--	33 S	8	--	--	--	--	--	--
11/13/73 1410	5001 5050	14 C 890	5.7	7.7 7.9	--	3	--	--	--	27 S	10	--	--	--	--	--	--
12/11/73 1345	5001 5050	9 C 690	7.8	7.4 7.7	--	3	--	--	--	24 S	4	--	--	--	--	--	--
01/09/74 1320	5001 5050	7 C 378	9.2	7.2 7.6	--	3	--	--	--	36 S	5	--	--	--	--	--	--
02/06/74 1200	5001 5050	9 C 470	10.0	7.4	--	3	--	--	--	24 S	4	--	--	--	--	--	--
03/26/74 1130	5001 5050	15 C 670	8.3	7.6	--	3	--	--	--	34 S	8	--	--	--	--	--	--
04/10/74 1120	5001 5050	15 C 467	7.8	7.7	--	3	--	--	--	33 S	5	--	--	--	--	--	--
04/25/74 1055	5001 5050	15 C 618	9.1	7.8	--	3	--	--	--	32 S	7	--	--	--	--	--	--
05/09/74 1030	5001 5050	19 C 555	8.2	8.1	--	3	--	--	--	63 S	10	--	--	--	--	--	--
05/23/74 0910	5001 5050	18 C 520	8.3	7.5	--	3	--	--	--	45 S	14	--	--	--	--	--	--
06/06/74 0905	5001 5050	21 C 320	7.2	7.3	--	3	--	--	--	64 S	10	--	--	--	--	--	--
06/25/74 1220	5001 5050	23 C 760	11.3	7.7	--	3	--	--	--	65 S	16	--	--	--	--	--	--
07/09/74 1130	5001 5050	22 C 928	6.9	8.6	--	3	--	--	--	65 S	13	--	--	--	--	--	--
07/23/74 1120	5001 5050	26 C 1000	6.3	8.0	--	3	--	--	--	50 S	10	--	--	--	--	--	--
08/07/74 1120	5001 5050	25 C 950	8.0	8.0	--	3	--	--	--	60 S	13	--	--	--	--	--	--
08/23/74 1300	5001 5050	26.0 C 630	7.8	7.8	--	3	--	--	--	60 S	9	--	--	--	--	--	--
09/05/74 1045	5001 5050	22 C 680	6.5	7.8	--	3	--	--	--	48 S	12	--	--	--	--	--	--
09/19/74 1025	5001 5050	22 C 690	6.8	7.7	--	3	--	--	--	44 S	9	--	--	--	--	--	--
B9 D 749.1 121.6 OLD RIVER ABOVE HEAD OF MIDDLE RIVER																	
10/09/73 0840	5050 5050	16 C 824	4.4		--	--	--	--	--	3.7 B 24 S	-- 5	--	--	--	--	--	--
10/18/73 0825	5050 5050	19 C 510	5.7		--	3	--	--	--	4.1 B 48 S	-- 5	--	--	--	--	--	--
10/26/73 0920	5050 5050	16 C 490	6.3		--	--	--	--	--	4.2 B 26 S	-- 10	--	--	--	--	--	--
11/15/73 1315	5050 5050	14 C 625	6.6		--	--	--	--	--	21 S	4	--	--	--	--	--	--
12/13/73 1325	5050 5050	10 C 505	8.9		--	3	--	--	--	23 S	1	--	--	--	--	--	--
B9 D 749.2 126.9 GRANT LINE CANAL AT TRACY ROAD BRIDGE																	
10/09/73 0720	5050 5050	17 C 834	5.6		--	3	--	--	--	2.9 B 28 S	-- 6	--	--	--	--	--	--
10/18/73 0615	5050 5050	17 C 475	6.1		--	3	--	--	--	4.1 B 46 S	-- 5	--	--	--	--	--	--
10/26/73 0800	5050 5050	16 C 440	5.8		--	3	--	--	--	3.0 B 30 S	-- 14	--	--	--	--	--	--
11/15/73 1155	5050 5050	16 C 598	5.9		--	3	--	--	--	23 S	5	--	--	--	--	--	--
12/13/73 1150	5050 5050	10 C 522	8.9		--	3	--	--	--	20 S	1	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	OISCH MBAS	DEPTH TURB	T+L CHLOR	O+G COLOR	SET S ML/L MG/L	BOD SUS S	V SUS S	COD SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
89 D 749.5 122.7 MIDDLE RIVER AT HEAD																		
10/09/73	5050	16 C	792	4.5	--	3	--	--	--	4.7 B	--	--	--	--	--	--	--	--
0825	5050				--					27 5	6							
10/18/73	5050	18 C	480	5.5	--	3	--	--	--	5.0 B	--	--	--	--	--	--	--	--
0815	5050				--					37 5	4							
10/26/73	5050	16 C	530	5.9	--	3	--	--	--	3.9 B	--	--	--	--	--	--	--	--
0915	5050				--					26 5	10							
11/15/73	5050	14 C	608	5.9	--	3	--	--	--	--	--	--	--	--	--	--	--	--
1310	5050				--					23 5	5							
12/13/73	5050	9 C	503	9.2	--	3	--	--	--	--	--	--	--	--	--	--	--	--
1315	5050				--					27 5	2							
89 D 749.8 133.2 WEST CANAL AT MOUTH OF INTAKE TO CLIFTON CT FOREBAY																		
10/15/73	5001	19 C	310	6.9	7.6	3	--	--	--	--	--	--	--	--	--	--	--	--
1440	5050				8.0	--				29 5	6							
11/13/73	5001	15 C	525	7.4	7.7	3	--	--	--	--	--	--	--	--	--	--	--	--
1505	5050				8.1	--				24 5	7							
12/11/73	5001	9 C	498	9.1	7.3	3	--	--	--	--	--	--	--	--	--	--	--	--
1450	5050				7.8	--				25 5	4							
01/09/74	5001	7 C	340	9.3	7.2	3	--	--	--	--	--	--	--	--	--	--	--	--
1425	5050				7.7	--				42 5	5							
02/06/74	5001	9 C	408	9.8	7.4	3	--	--	--	--	--	--	--	--	--	--	--	--
1310	5050					--				30 5	10							
03/26/74	5001	15 C	280	8.2	7.4	3	--	--	--	--	--	--	--	--	--	--	--	--
1025	5050					--				41 5	8							
04/10/74	5001	15 C	342	7.7	7.6	3	--	--	--	--	--	--	--	--	--	--	--	--
1025	5050					--				41 5	5							
04/25/74	5001	16 C	380	8.1	7.6	3	--	--	--	--	--	--	--	--	--	--	--	--
0955	5050					--				44 5	7							
05/09/74	5001	20 C	365	7.4	7.8	3	--	--	--	--	--	--	--	--	--	--	--	--
1130	5050					--				52 5	7							
05/23/74	5001	19 C	260	8.2	7.4	3	--	--	--	--	--	--	--	--	--	--	--	--
1015	5050					--				66 5	11							
06/06/74	5001	23 C	185	6.4	7.1	3	--	--	--	--	--	--	--	--	--	--	--	--
1000	5050					--				50 5	8							
06/25/74	5001	22 C	180	7.5	7.2	3	--	--	--	--	--	--	--	--	--	--	--	--
1325	5050					--				59 5	13							
07/09/74	5001	22 C	153	7.0	8.1	3	--	--	--	--	--	--	--	--	--	--	--	--
1225	5050					--				24 5	6							
07/23/74	5001	25 C	190	7.0	7.6	3	--	--	--	--	--	--	--	--	--	--	--	--
1215	5050					--				46 5	7							
08/07/74	5001	26 C	270	7.4	7.5	3	--	--	--	--	--	--	--	--	--	--	--	--
1220	5050					--				47 5	10							
08/23/74	5001	25.0C	235	7.9	7.6	3	--	--	--	--	--	--	--	--	--	--	--	--
1355	5050					--				51 5	5							
09/05/74	5001	23 C	243	7.5	7.7	3	--	--	--	--	--	--	--	--	--	--	--	--
1140	5050					--				42 5	8							
09/19/74	5001	22 C	225	7.5	7.5	3	--	--	--	--	--	--	--	--	--	--	--	--
1115	5050					--				40 5	7							
89 D 751.9 119.3 SAN JOAQUIN RIVER AT BRANDT BRIDGE																		
10/09/73	5050	16.5C	787	4.8	--	3	--	--	--	4.8 B	--	--	--	--	--	--	--	--
0740	5050				--					30 5	7							
10/18/73	5050	18.5C	550	5.5	--	3	--	--	--	4.7 B	--	--	--	--	--	--	--	--
0645	5050				--					52 5	6							
10/26/73	5050	16.0C	530	5.7	--	3	--	--	--	4.1 B	--	--	--	--	--	--	--	--
0830	5050				--					20 5	7							
11/15/73	5050	14.5C	589	6.7	--	3	--	--	--	--	--	--	--	--	--	--	--	--
1240	5050				--					16 5	2							
12/13/73	5050	10.3C	507	9.3	--	3	--	--	--	--	--	--	--	--	--	--	--	--
1415	5050				--					34 5	3							
03/25/74	5001	14 C	570	8.4	7.5	1	--	--	--	--	--	--	--	--	--	--	--	--
1020	5050					--				25 5	7							
04/09/74	5001	15 C	322	9.0	7.6	1	--	--	--	--	--	--	--	--	--	--	--	--
1005	5050					--				48 5	6							
04/24/74	5001	15 C	490	9.1	7.7	3	--	--	--	--	--	--	--	--	--	--	--	--
0905	5050					--				29 5	4							
05/08/74	5001	19 C	410	8.7	7.9	3	--	--	--	--	--	--	--	--	--	--	--	--
0915	5050					--				34 5	6							
05/22/74	5001	17 C	355	8.9	7.2	3	--	--	--	--	--	--	--	--	--	--	--	--
0810	5050					--				33 5	5							
06/05/74	5001	21 C	235	7.7	7.4	3	--	--	--	--	--	--	--	--	--	--	--	--
0745	5050					--				46 5	8							
06/24/74	5001	24 C	520	11.0	8.1	3	--	--	--	--	--	--	--	--	--	--	--	--
1130	5050					--				46 5	14							
07/08/74	5001	23 C	430	5.6	7.9	3	--	--	--	--	--	--	--	--	--	--	--	--
1100	5050					--				46 5	9							



TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURR	T-L CHLOR	SET 9 ML/L COLOR	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T DOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
B9 D 751.9 119.3 SAN JOAQUIN RIVER AT BRANDT BRIDGE CONTINUED																
07/22/74 1140	5001 5050	26 C 490	5.5	8.0	--	3	--	--	36 5	10	--	--	--	--	--	--
08/06/74 1020	5001 5050	24 C 490	5.5	7.7	--	3	--	--	31 5	9	--	--	--	--	--	--
08/22/74 1210	5001 5050	24.0C 590	3.2	7.7	--	3	--	--	26 5	5	--	--	--	--	--	--
09/04/74 1000	5001 5050	21 C 610	8.7	7.9	--	3	--	--	45 5	10	--	--	--	--	--	--
09/06/74 1320	5050 5050	25 C 575	9.5		--	3	--	--	56 5	10	--	--	--	--	--	--
09/18/74 0930	5001 5050	22 C 585	8.9	7.5	--	3	--	--	35 5	6	--	--	--	--	--	--
B9 D 753.5 129.3 MIDDLE RIVER AT BORDEN HIGHWAY																
10/15/73 1400	5001 5050	19 C 340	6.7	7.4 7.7	--	3	--	--	32 5	7	--	--	--	--	--	--
11/13/73 1330	5001 5050	14 C 308	7.8	7.3 7.9	--	3	--	--	1.4 B 23 5	8	--	--	--	--	--	--
12/11/73 1305	5001 5050	9 C 382	9.0	7.4 7.8	--	3	--	--	1.5 B 24 5	4	--	--	--	--	--	--
01/09/74 1230	5001 5050	6 C 365	9.1	7.2 7.9	--	3	--	--	1.9 B 25 5	4	--	--	--	--	--	--
02/06/74 1055	5001 5050	8 C 413	9.7	7.3	--	3	--	--	1.3 B 31 5	5	--	--	--	--	--	--
B9 D 755.7 119.6 SAN JOAQUIN RIVER AT HIGHWAY 4																
10/09/73 0720	5050 5050	16.5C 716	5.7		--	3	--	--	4.5 B 32 5	7	--	--	--	--	--	--
10/18/73 0625	5050 5050	19 C 430	6.2		--	3	--	--	4.1 B 44 5	5	--	--	--	--	--	--
10/26/73 0805	5050 5050	16.5C 510	6.6		--	3	--	--	2.7 B 20 5	6	--	--	--	--	--	--
11/15/73 1220	5050 5050	15 C 622	5.9		--	3	--	--	21 5	4	--	--	--	--	--	--
12/13/73 1435	5050 5050	10.2C 512	9.0		--	3	--	--	33 5	4	--	--	--	--	--	--
B9 D 756.3 120.1 SAN JOAQUIN RIVER BELOW SANTA FE RR BRIDGE AT STOCKTON																
10/09/73 0710	5050 5050	16.5C 686	5.5		--	3	--	--	13 B 46 5	14	--	--	--	--	--	--
10/18/73 0615	5050 5050	19 C 450	8.4		--	3	--	--	3.6 B 44 5	10	--	--	--	--	--	--
10/26/73 0800	5050 5050	16.5C 590	6.6		--	3	--	--	6.4 B 25 5	7	--	--	--	--	--	--
11/15/73 1210	5050 5050	15 C 658	5.7		--	3	--	--	20 5	4	--	--	--	--	--	--
12/13/73 1455	5050 5050	10.2C 512	8.6		--	3	--	--	37 5	5	--	--	--	--	--	--
09/26/74 0725	5050 5050	20 C 480	7.0		--	3	--	--	8.4 B	--	--	--	--	--	--	--
09/26/74 0726	5050 5050	20 C 480	7.0		--	3	--	--	17 F	--	--	--	--	--	--	--
B9 D 757.1 120.2 STOCKTON SHIP CHANNEL AT LIGHT 48																
10/09/73 0910	5050 5050	5.0 526			--	3	--	--	4.6 B 21 5	3	--	--	--	--	--	--
10/09/73 0911	5050 5050	5.2 512			--	30	--	--	28 5	3	--	--	--	--	--	--
10/18/73 0840	5050 5050	20.0C 513	6.4		--	3	--	--	4.7 B 20 5	3	--	--	--	--	--	--
10/18/73 0840	5050 5050	20.0C 505	5.6		--	32	--	--	34 5	5	--	--	--	--	--	--
10/26/73 0945	5050 5050	17.0C 496	6.1		--	32	--	--	29 5	6	--	--	--	--	--	--
10/26/73 0945	5050 5050	17.0C 461	5.8		--	3	--	--	4.8 B 24 5	6	--	--	--	--	--	--
11/15/73 1330	5050 5050	15.0C 663	5.5		--	29	--	--	36 5	6	--	--	--	--	--	--
11/15/73 1330	5050 5050	15.0C 672	5.5		--	3	--	--	25 5	5	--	--	--	--	--	--
12/13/73 1350	5050 5050	10.0C 550	8.8		--	32	--	--	18 5	3	--	--	--	--	--	--
12/13/73 1350	5050 5050	10.0C 552	8.7		--	3	--	--	17 5	2	--	--	--	--	--	--
09/06/74 1325	5050 5050	26 C 615	6.4		--	3	--	--	31 5	10	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURR	T-L CHLOR	SET 5 ML/L COLOR MG/L	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
B9 D 757.1 120.2 STOCKTON SHIP CHANNEL AT LIGHT 48 CONTINUED																
09/06/74 1326	5050 5050	26 C 620	5.3		--	29	--	--	82	5	18	--	--	--	--	--
B9 D 757.2 119.2 STOCKTON DEEP WATER CHANNEL TURNING BASIN																
09/26/74 0950	5050 5050	22 C 477	6.7		--	3	--	--	5.3	B	--	--	--	--	--	--
09/26/74 0951	5050 5050	22 C 477	6.7		--	3	--	--	11	F	--	--	--	--	--	--
B9 D 757.4 131.7 MIDDLE RIVER AT BACON ISLAND BRIDGE																
03/25/74 1100	5001 5050	15 C 286	8.0	7.3	--	3	--	--	41	5	8	--	--	--	--	--
04/09/74 0930	5001 5050	15 C 372	8.3	7.2	--	3	--	--	30	5	5	--	--	--	--	--
04/25/74 0910	5001 5050	16 C 340	7.7	7.2	--	3	--	--	28	5	3	--	--	--	--	--
05/09/74 0855	5001 5050	23 C 329	6.5	7.3	--	3	--	--	30	5	3	--	--	--	--	--
05/22/74 0830	5001 5050	18 C 260	7.5	7.3	--	3	--	--	51	5	8	--	--	--	--	--
06/05/74 0815	5001 5050	22 C 241	6.4	7.3	--	3	--	--	46	5	8	--	--	--	--	--
06/24/74 1120	5001 5050	22 C 174	5.9	7.4	--	3	--	--	38	5	4	--	--	--	--	--
07/08/74 1030	5001 5050	23.0C 147	6.6	7.6	--	3	--	--	38	5	11	--	--	--	--	--
07/22/74 1025	5001 5050	25 C 172	7.3	7.5	--	3	--	--	30	5	2	--	--	--	--	--
08/06/74 0940	5001 5050	25 C 188	7.2	7.6	--	3	--	--	30	5	3	--	--	--	--	--
08/22/74 1140	5001 5050	23 C 182	7.5	7.7	--	3	--	--	33	5	3	--	--	--	--	--
09/05/74 1035	5001 5050	23 C 174	8.0	7.6	--	3	--	--	40	5	9	--	--	--	--	--
09/18/74 0925	5001 5050	23 C 290	8.0	7.8	--	3	--	--	31	5	7	--	--	--	--	--
B9 D 757.6 121.5 STOCKTON SHIP CHANNEL AT LIGHT 43																
10/09/73 0840	5050 5050	538	4.9		--	3	--	--	4.7	B	--	--	--	--	--	--
10/09/73 0841	5050 5050	464	4.8		--	31	--	--	52	5	6	--	--	--	--	--
10/18/73 0815	5050 5050	19.0C 514	4.9		--	3	--	--	4.6	B	--	--	--	--	--	--
10/18/73 0816	5050 5050	19.0C 483	4.3		--	30	--	--	34	5	5	--	--	--	--	--
10/26/73 0925	5050 5050	17.0C 424	5.8		--	3	--	--	4.0	B	--	--	--	--	--	--
10/26/73 0926	5050 5050	17.0C 452	5.0		--	31	--	--	62	5	10	--	--	--	--	--
11/15/73 1315	5050 5050	15.0C 716	6.1		--	3	--	--	16	5	4	--	--	--	--	--
11/15/73 1316	5050 5050	15.0C 750	6.3		--	30	--	--	28	5	5	--	--	--	--	--
12/13/73 1330	5050 5050	10.0C 550	8.5		--	3	--	--	16	5	3	--	--	--	--	--
12/13/73 1331	5050 5050	10.0C 551	8.2		--	33	--	--	29	5	4	--	--	--	--	--
B9 D 758.1 122.2 STOCKTON SHIP CHANNEL AT LIGHT 41																
09/06/74 1255	5050 5050	26 C 570	4.9		--	3	--	--	22	5	8	--	--	--	--	--
09/26/74 0815	5050 5050	21 C 398	6.3		--	3	--	--	4.6	B	--	--	--	--	--	--
09/26/74 0816	5050 5050	21 C 398	6.3		--	3	--	--	11	F	--	--	--	--	--	--
B9 D 758.2 134.3 OLD RIVER OPPOSITE RANCHO DEL RIO																
10/01/73 1130	5001 5050	20 C 219	7.5	8.0	--	3	--	--	27	5	2	--	--	--	--	--
10/29/73 1140	5001 5050	15.0C 210	8.9	7.9	--	3	--	--	21	5	6	--	--	--	--	--
12/03/73 1325	5001 5050	10 C 182	9.7	6.9	--	3	--	--	26	5	4	--	--	--	--	--
01/14/74 1305	5001 5050	A C 433	7.7		--	3	--	--	29	5	4	--	--	--	--	--
03/25/74 1135	5001 5050	14 C 178	8.6	7.3	--	3	--	--	1.1	B	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO O.H.	F-PH L-PH	OISCH MRAS	DEPTH TURR	T+L CHLOR	0+8 COLOR	SET 5 ML/L MØ/L	800 SUS 5	COO V SUS 5	CYANIDE PHENOLS	TOC DOc	IOOIOE T ODOE	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
B9 D 758.2 134.3 OLD RIVER OPPOSITE RANCHO DEL RIO																	
CONTINUED																	
04/25/74 0940	5001 5050	1A C 245	8.4	7.3	--	3	--	--	--	-- 25 5	-- 2	--	--	--	--	--	--
05/09/74 0920	5001 5050	22 C 188	8.7	7.9	--	3	--	--	--	1.7 B 45 5	-- 7	--	--	--	--	--	--
05/22/74 0855	5001 5050	1A C 160	8.7	7.5	--	3	--	--	--	-- 57 5	-- 9	--	--	--	--	--	--
06/05/74 0845	5001 5050	27 C 151	6.8	7.3	--	3	--	--	--	1.1 B 46 5	-- 6	--	--	--	--	--	--
06/24/74 1150	5001 5050	23 C 136	6.5	7.7	--	3	--	--	--	-- 41 5	-- 4	--	--	--	--	--	--
07/08/74 1105	5001 5050	22.0C 157	6.6	7.7	--	3	--	--	--	1.3 B 40 5	-- 12	--	--	--	--	--	--
07/22/74 1055	5001 5050	25 C 199	7.5	7.6	--	3	--	--	--	-- 31 5	-- 3	--	--	--	--	--	--
08/06/74 1005	5001 5050	24 C 316	8.0	7.7	--	3	--	--	--	0.9 B 22 5	-- 2	--	--	--	--	--	--
08/22/74 1210	5001 5050	23 C 262	7.8	7.7	--	3	--	--	--	-- 42 5	-- 4	--	--	--	--	--	--
09/05/74 1105	5001 5050	23 C 198	7.9	7.6	--	3	--	--	--	0.8 B 40 5	-- 10	--	--	--	--	--	--
09/18/74 1020	5001 5050	22 C 169	8.2	7.7	--	3	--	--	--	-- 35 5	-- 7	--	--	--	--	--	--
B9 D 758.6 138.3 ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE																	
10/01/73 0955	5001 5050	19 C 268	6.7	7.8 7.9	--	3	--	--	--	-- 42 5	-- 4	--	--	--	--	--	--
10/29/73 1010	5001 5050	15.0C 220	8.1	7.8 7.9	--	3	--	--	--	-- 42 5	-- 14	--	--	--	--	--	--
12/03/73 1135	5001 5050	11 C 220	9.1	7.1 7.6	--	3	--	--	--	-- 37 5	-- 6	--	--	--	--	--	--
01/14/74 1115	5001 5050	A C 760		7.8	--	3	--	--	--	-- 34 5	-- 6	--	--	--	--	--	--
03/26/74 0920	5001 5050	15 C 233	8.3	7.3	--	3	--	--	--	-- 42 5	-- 8	--	--	--	--	--	--
04/10/74 0910	5001 5050	15 C 338	8.7	7.6	--	3	--	--	--	-- 31 5	-- 4	--	--	--	--	--	--
04/25/74 0855	5001 5050	16 C 353	8.7	7.7	--	3	--	--	--	-- 28 5	-- 5	--	--	--	--	--	--
05/09/74 0925	5001 5050	21 C 215	7.6	7.7	--	3	--	--	--	-- 46 5	-- 6	--	--	--	--	--	--
05/23/74 0805	5001 5050	19 C 178	7.7	7.6	--	3	--	--	--	-- 60 5	-- 10	--	--	--	--	--	--
06/06/74 0805	5001 5050	23 C 150	6.6	7.2	--	3	--	--	--	-- 56 5	-- 9	--	--	--	--	--	--
06/25/74 1105	5001 5050	22 C 140	7.4	6.8	--	3	--	--	--	-- 68 5	-- 16	--	--	--	--	--	--
07/09/74 1020	5001 5050	21 C 157	6.4	7.8	--	3	--	--	--	-- 38 5	-- 7	--	--	--	--	--	--
07/23/74 1020	5001 5050	25 C 215	6.7	7.5	--	3	--	--	--	-- 39 5	-- 7	--	--	--	--	--	--
08/07/74 1030	5001 5050	26 C 310	7.2	7.4	--	3	--	--	--	-- 37 5	-- 8	--	--	--	--	--	--
08/23/74 1155	5001 5050	25.0C 290	7.0	7.5	--	3	--	--	--	-- 37 5	-- 4	--	--	--	--	--	--
09/05/74 0945	5001 5050	24 C 239	7.4	7.8	--	3	--	--	--	-- 52 5	-- 10	--	--	--	--	--	--
09/19/74 0925	5001 5050	27 C 182	7.0	7.2	--	3	--	--	--	-- 36 5	-- 6	--	--	--	--	--	--
B9 D 758.7 122.9 SAN JOAQUIN RIVER AT BUCKLEY COVE																	
10/15/73 1215	5001 5050	19 C 530	6.6	7.6 7.9	--	2	--	--	--	-- 22 5	-- 8	--	--	--	--	--	--
11/13/73 1245	5001 5050	14 C 667	6.1	7.7 7.8	--	2	--	--	--	3.0 B 18 5	-- 6	--	--	--	--	--	--
12/11/73 1220	5001 5050	9 C 600	8.0	7.6 7.8	--	2	--	--	--	3.2 B 22 5	-- 4	--	--	--	--	--	--
01/09/74 1135	5001 5050	7 C 249	9.6	7.2 7.6	--	2	--	--	--	2.6 B 29 5	-- 6	--	--	--	--	--	--
02/06/74 1000	5001 5050	9 C 403	9.3	7.2	--	2	--	--	--	1.9 B 25 5	-- 4	--	--	--	--	--	--
03/25/74 0935	5001 5050	15 C 518	8.1	7.3	--	3	--	--	--	2.4 B 32 5	-- 8	--	--	--	--	--	--
04/09/74 0810	5001 5050	15 C 277	8.2	7.2	--	3	--	--	--	1.9 B 40 5	-- 5	--	--	--	--	--	--
04/25/74 0800	5001 5050	1A C 395	8.5	7.1	--	3	--	--	--	-- 28 5	-- 6	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T+L CHLOR	SET 5 O+G COLOR	ML/L MG/L	BOD SUS 5	COD V SUS 5	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
B9 D 758.7 122.9 SAN JOAQUIN RIVER AT BUCKLEY COVE																	
CONTINUED																	
05/09/74	5001	19 C	7.6	7.5	--	3	--	--	--	2.5 8	--	--	--	--	--	--	--
0751	5050	430			--					39 5	6	--	--	--	--	--	--
05/22/74	5001	17 C	8.3	7.5	--	3	--	--	--	--	--	--	--	--	--	--	--
0720	5050	328			--					33 5	8	--	--	--	--	--	--
06/05/74	5001	22 C	6.3	7.4	--	3	--	--	--	3.0 8	--	--	--	--	--	--	--
0705	5050	354			--					52 5	10	--	--	--	--	--	--
06/24/74	5001	23 C		7.4	--	3	--	--	--	--	--	--	--	--	--	--	--
1020	5050	332			--					34 5	4	--	--	--	--	--	--
07/08/74	5001	24.0C	6.8	7.7	--	3	--	--	--	2.3 8	--	--	--	--	--	--	--
0930	5050	280			--					43 5	13	--	--	--	--	--	--
07/22/74	5001	25 C	8.8	7.9	--	3	--	--	--	--	--	--	--	--	--	--	--
0925	5050	289			--					33 5	4	--	--	--	--	--	--
08/06/74	5001	26 C	7.2	7.6	--	3	--	--	--	2.0 8	--	--	--	--	--	--	--
0835	5050	229			--					40 5	5	--	--	--	--	--	--
08/22/74	5001	25 C	7.1	7.7	--	3	--	--	--	--	--	--	--	--	--	--	--
1040	5050	282			--					30 5	5	--	--	--	--	--	--
09/05/74	5001	25 C	6.0	7.7	--	3	--	--	--	3.2 8	--	--	--	--	--	--	--
0925	5050	504			--					20 5	8	--	--	--	--	--	--
09/18/74	5001	23 C	2.0	7.4	--	3	--	--	--	--	--	--	--	--	--	--	--
0830	5050	529			--					30 5	7	--	--	--	--	--	--
B9 D 758.8 128.5 TURNER CUT AT McDONALD ISLAND FERRY																	
04/09/74	5001	15 C	8.0	7.3	--	3	--	--	--	--	--	--	--	--	--	--	--
0845	5050	295			--					35 5	4	--	--	--	--	--	--
04/25/74	5001	16 C	8.0	7.3	--	3	--	--	--	--	--	--	--	--	--	--	--
0835	5050	380			--					38 5	7	--	--	--	--	--	--
05/09/74	5001	19 C	6.3	7.4	--	3	--	--	--	--	--	--	--	--	--	--	--
0830	5050	438			--					42 5	7	--	--	--	--	--	--
05/22/74	5001	18 C	7.6	7.4	--	3	--	--	--	--	--	--	--	--	--	--	--
0800	5050	327			--					45 5	8	--	--	--	--	--	--
06/05/74	5001	22 C	5.4	7.2	--	3	--	--	--	--	--	--	--	--	--	--	--
0730	5050	420			--					48 5	9	--	--	--	--	--	--
06/24/74	5001	23 C	5.8	7.4	--	3	--	--	--	--	--	--	--	--	--	--	--
1050	5050	235			--					45 5	4	--	--	--	--	--	--
07/08/74	5001	23.0C	6.0	7.6	--	3	--	--	--	--	--	--	--	--	--	--	--
1005	5050	160			--					62 5	16	--	--	--	--	--	--
07/22/74	5001	25 C	7.7	7.8	--	3	--	--	--	--	--	--	--	--	--	--	--
0955	5050	174			--					50 5	6	--	--	--	--	--	--
08/06/74	5001	25 C	7.2	7.6	--	3	--	--	--	--	--	--	--	--	--	--	--
0910	5050	177			--					40 5	4	--	--	--	--	--	--
08/22/74	5001	24 C	7.5	7.7	--	3	--	--	--	--	--	--	--	--	--	--	--
1110	5050	178			--					39 5	5	--	--	--	--	--	--
09/05/74	5001	24 C	8.8	8.0	--	3	--	--	--	--	--	--	--	--	--	--	--
1000	5050	226			--					34 5	8	--	--	--	--	--	--
09/18/74	5001	23 C	6.7	7.7	--	3	--	--	--	--	--	--	--	--	--	--	--
0900	5050	428			--					39 5	9	--	--	--	--	--	--
B9 D 759.1 123.6 STOCKTON SHIP CHANNEL AT LIGHT 36																	
10/09/73	5050	19 C	4.1		--	3	--	--	--	4.3 8	--	--	--	--	--	--	--
0805	5050	511			--					--	--	--	--	--	--	--	--
10/18/73	5050	19.0C	4.2		--	3	--	--	--	4.2 8	--	--	--	--	--	--	--
0740	5050	472			--					--	--	--	--	--	--	--	--
10/26/73	5050	17.0C	5.2		--	3	--	--	--	3.9 8	--	--	--	--	--	--	--
0650	5050	413			--					--	--	--	--	--	--	--	--
B9 D 800.5 134.8 OLD RIVER AT HOLLAND TRACT																	
10/01/73	5001	20 C	7.1	8.0	--	3	--	--	--	--	--	--	--	--	--	--	--
1040	5050	212		7.9	--					27 5	2	--	--	--	--	--	--
10/29/73	5001	15.0C	8.6	7.9	--	3	--	--	--	--	--	--	--	--	--	--	--
1055	5050	200		8.1	--					44 5	11	--	--	--	--	--	--
12/03/73	5001	10 C	10.0	7.4	--	3	--	--	--	--	--	--	--	--	--	--	--
1235	5050	156		7.7	--					28 5	4	--	--	--	--	--	--
01/14/74	5001	8 C			--	3	--	--	--	--	--	--	--	--	--	--	--
1215	5050	458		7.5	--					24 5	3	--	--	--	--	--	--
B9 D 800.7 139.4 DUTCH SLOUGH AT BETHEL ISLAND BRIDGE																	
10/01/73	5001	19 C	6.0	7.9	--	3	--	--	--	--	--	--	--	--	--	--	--
0855	5050	313		8.0	--					32 5	4	--	--	--	--	--	--
10/29/73	5001	15.0C	7.6	8.0	--	3	--	--	--	--	--	--	--	--	--	--	--
0810	5050	240		7.7	--					34 5	10	--	--	--	--	--	--
12/03/73	5001	9 C	9.5	7.1	--	3	--	--	--	--	--	--	--	--	--	--	--
1105	5050	280		7.4	--					39 5	7	--	--	--	--	--	--
01/14/74	5001	8 C		7.5	--	3	--	--	--	--	--	--	--	--	--	--	--
1020	5050	465		7.7	--					28 5	5	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	O+G COLOR	SET S ML/L MO/L	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODDR	BROMIDE SULFITE	T SULF O SULF	CC EXT CA EXT
B9 D 001.1 142.6 BIO BREAK NEAR DAKLEY																	
10/02/73 1035	5001 5050	20.0C 248	7.8 8.1	7.8 8.1	--	3	--	--	--	1.1 B 26 5	-- 5	--	--	--	--	--	--
10/30/73 0900	5001 5050	16.0C 166	8.6 7.9	7.0 7.9	--	3	--	--	--	18 5	10	--	--	--	--	--	--
12/04/73 1220	5001 5050	18 C 135	9.6 7.7	7.1 7.7	--	3	--	--	--	1.0 B 29 5	-- 5	--	--	--	--	--	--
01/15/74 1110	5001 5050	8.0C 234	10.4 7.8	7.4 7.8	--	3	--	--	--	1.2 B 22 5	-- 7	--	--	--	--	--	--
02/13/74 1040	5001 5050	9.0C 194	10.7 7.6	7.6	--	3	--	--	--	1.3 B 44 5	-- 10	--	--	--	--	--	--
03/19/74 1410	5001 5050	14.0C 161	8.7 7.9	7.9	--	3	--	--	--	1.2 B 27 5	-- 4	--	--	--	--	--	--
04/03/74 1425	5001 5050	13 C 175	9.8 7.7	7.7	--	3	--	--	--	1.4 B 52 5	-- 5	--	--	--	--	--	--
04/18/74 1435	5001 5050	15 C 171	9.3 7.6	7.6	--	3	--	--	--	-- 37 5	-- 6	--	--	--	--	--	--
05/01/74 1350	5001 5050	18 C 165	9.9 8.1	8.1	--	3	--	--	--	1.8 B 48 5	-- 5	--	--	--	--	--	--
05/15/74 1215	5001 5050	18 C 162	9.1 8.0	8.0	--	3	--	--	--	-- 64 5	-- 9	--	--	--	--	--	--
06/13/74 1145	5001 5050	20 C 167	8.6 8.1	8.1	--	3	--	--	--	1.4 B 76 5	-- 12	--	--	--	--	--	--
06/27/74 1148	5001 5050	21 C 135	8.1 8.1	8.1	--	3	--	--	--	-- 72 5	-- 15	--	--	--	--	--	--
07/11/74 1000	5001 5050	20 C 258	7.6 7.9	7.9	--	3	--	--	--	1.1 B 42 5	-- 7	--	--	--	--	--	--
07/25/74 1015	5001 5050	25 C 333	7.3 7.7	7.7	--	3	--	--	--	-- 46 5	-- 6	--	--	--	--	--	--
08/14/74 1455	5001 5050	22 C 418	8.5 7.8	7.8	--	3	--	--	--	0.8 B 31 5	-- 5	--	--	--	--	--	--
08/28/74 1430	5001 5050	23.0C 276	8.3 8.2	8.2	--	3	--	--	--	-- 48 5	-- 14	--	--	--	--	--	--
09/11/74 1510	5001 5050	23 C 194	8.8 8.2	8.2	--	3	--	--	--	1.5 B 45 5	-- 8	--	--	--	--	--	--
09/25/74 1325	5001 5050	20 C 163	9.2 8.1	8.1	--	3	--	--	--	-- 33 5	-- 6	--	--	--	--	--	--
B9 D 001.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL																	
10/02/73 0945	5001 5050	21.0C 641	7.4 8.0	7.5 8.0	--	3	--	--	--	1.2 B 39 5	-- 6	--	--	--	--	--	--
10/31/73 0945	5001 5050	17.0C 377	8.5 7.0	7.4 7.0	--	3	--	--	--	-- 35 5	-- 11	--	--	--	--	--	--
12/04/73 1130	5001 5050	11.0C 126	9.5 7.5	7.0 7.5	--	3	--	--	--	1.2 B 56 5	-- 7	--	--	--	--	--	--
01/15/74 1010	5001 5050	8.0C 191	9.7 8.0	6.3 8.0	--	3	--	--	--	1.2 B 34 5	-- 3	--	--	--	--	--	--
02/13/74 0940	5001 5050	9 C 173	10.7 7.6	7.6	--	3	--	--	--	1.4 B 57 5	-- 6	--	--	--	--	--	--
03/20/74 1440	5001 5050	14.0C 158	9.1 7.8	7.8	--	3	--	--	--	1.8 B 38 5	-- 5	--	--	--	--	--	--
03/20/74 1441	5001 5050	14.0C 159			--	33	--	--	--	-- 40 5	-- 4	--	--	--	--	--	--
04/03/74 1350	5001 5050	13 C 133	9.7 7.6	7.6	--	3	--	--	--	1.4 B 56 5	-- 4	--	--	--	--	--	--
04/03/74 1351	5001 5050	13 C 133			--	34	--	--	--	-- 52 5	-- 5	--	--	--	--	--	--
04/18/74 1405	5001 5050	15 C 163	9.1 7.5	7.5	--	3	--	--	--	-- 44 5	-- 6	--	--	--	--	--	--
04/18/74 1406	5001 5050	1A C 163			--	33	--	--	--	-- 44 5	-- 7	--	--	--	--	--	--
05/01/74 1320	5001 5050	17 C 169	9.5 7.6	7.6	--	3	--	--	--	1.5 B 49 5	-- 4	--	--	--	--	--	--
05/01/74 1321	5001 5050	17 C 169			--	32	--	--	--	-- 55 5	-- 4	--	--	--	--	--	--
05/15/74 1140	5001 5050	18 C 167	9.0 8.0	8.0	--	3	--	--	--	-- 44 5	-- 6	--	--	--	--	--	--
05/15/74 1141	5001 5050	18 C 159			--	32	--	--	--	-- 42 5	-- 6	--	--	--	--	--	--
06/13/74 1115	5001 5050	20 C 179	8.3 8.1	8.1	--	3	--	--	--	1.4 B 44 5	-- 11	--	--	--	--	--	--
06/13/74 1116	5001 5050	21 C 184			--	33	--	--	--	-- 64 5	-- 10	--	--	--	--	--	--
06/27/74 1110	5001 5050	21 C 240	8.2 7.9	7.9	--	3	--	--	--	-- 42 5	-- 7	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	SET S O+G COLOR	ML/L MG/L	BOD SUS S	COD SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
B9 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL CONTINUED																	
06/27/74 1111	5001 5050	22 C 278			--	32	--	--	--	58 S	8	--	--	--	--	--	--
07/11/74 0930	5001 5050	21 C 918	7.5	7.7	--	3	--	--	--	0.9 R 37 S	6	--	--	--	--	--	--
07/11/74 0931	5001 5050	21 C 1110			--	31	--	--	--	60 S	9	--	--	--	--	--	--
07/25/74 0950	5001 5050	24 C 926	7.0	7.6	--	3	--	--	--	58 S	10	--	--	--	--	--	--
07/25/74 0951	5001 5050	24 C 1047			--	32	--	--	--	65 S	6	--	--	--	--	--	--
08/14/74 1430	5001 5050	22 C 731	7.7	7.7	--	3	--	--	--	0.8 R 59 S	6	--	--	--	--	--	--
08/14/74 1431	5001 5050	23 C 745			--	32	--	--	--	76 S	8	--	--	--	--	--	--
08/28/74 1410	5001 5050	23.0C 510	8.0	7.9	--	3	--	--	--	53 S	13	--	--	--	--	--	--
08/28/74 1411	5001 5050	23.0C 551			--	32	--	--	--	95 S	18	--	--	--	--	--	--
09/11/74 1440	5001 5050	22 C 218	8.1	8.0	--	3	--	--	--	1.3 R 40 S	7	--	--	--	--	--	--
09/11/74 1441	5001 5050	23 C 212			--	32	--	--	--	48 S	8	--	--	--	--	--	--
09/25/74 1300	5001 5050	20 C 183	8.6	8.0	--	3	--	--	--	42 S	8	--	--	--	--	--	--
09/25/74 1301	5001 5050	20 C 183			--	33	--	--	--	86 S	11	--	--	--	--	--	--
B9 D 801.3 127.9 STOCKTON SHIP CHANNEL AT LIGHT 18																	
10/09/73 0720	5050 5050	19 C 407	4.6		--	3	--	--	--	2.1 R 28 S	3	--	--	--	--	--	--
10/09/73 0721	5050 5050	19 C 532	4.5		--	32	--	--	--	37 S	3	--	--	--	--	--	--
10/18/73 0655	5050 5050	18.0C 463	4.2		--	3	--	--	--	3.2 R 25 S	4	--	--	--	--	--	--
10/18/73 0656	5050 5050	18.0C 456	4.2		--	22	--	--	--	27 S	4	--	--	--	--	--	--
10/26/73 0805	5050 5050	17.0C 338	6.0		--	3	--	--	--	2.2 R 24 S	7	--	--	--	--	--	--
10/26/73 0806	5050 5050	17.0C 314	5.8		--	58	--	--	--	45 S	11	--	--	--	--	--	--
11/15/73 1210	5050 5050	14.0C 258	7.4		--	3	--	--	--	16 S	3	--	--	--	--	--	--
11/15/73 1211	5050 5050	14.0C 271	7.4		--	31	--	--	--	29 S	5	--	--	--	--	--	--
12/13/73 1210	5050 5050	10.0C 317	8.4		--	3	--	--	--	21 S	3	--	--	--	--	--	--
12/13/73 1211	5050 5050	10.0C 323	8.4		--	34	--	--	--	26 S	4	--	--	--	--	--	--
09/06/74 1140	5050 5050	24 C 208	8.3		--	3	--	--	--	29 S	6	--	--	--	--	--	--
09/26/74 0640	5050 5050	22 C 438	4.2		--	3	--	--	--	3.2 R	--	--	--	--	--	--	--
09/26/74 0641	5050 5050	22 C 438	4.2		--	3	--	--	--	8.1 F	--	--	--	--	--	--	--
B9 D 801.6 145.2 SAN JOAQUIN RIVER AT ANTIOCH BRIDGE (AT LIGHT 121)																	
10/02/73 1015	5001 5050	21.0C 480	7.7	7.7 8.0	--	3	--	--	--	27 S	6	--	--	--	--	--	--
10/30/73 0830	5001 5050	18.0C 219	8.4	7.5 7.7	--		--	--	--	26 S	12	--	--	--	--	--	--
12/04/73 1200	5001 5050	11.0C 120	9.4	7.1 7.5	--	3	--	--	--	32 S	6	--	--	--	--	--	--
01/15/74 1045	5001 5050	8.0C 220	10.0	7.4 7.6	--	3	--	--	--	26 S	2	--	--	--	--	--	--
02/13/74 1015	5001 5050	9.0C 194	10.3	7.5	--	3	--	--	--	50 S	5	--	--	--	--	--	--
B9 D 801.9 151.4 NEW YORK SLOUGH NEAR PITTSBURG POINT																	
10/31/73 0925	5001 5050	17.0C 641	8.2	7.4 7.7	--	3	--	--	--	40 S	12	--	--	--	--	--	--
B9 D 802.6 125.1 DISAPPOINTMENT SLOUGH AT BISHOP CUT																	
03/25/74 0830	5001 5050	14 C 205	7.2	7.1	--	3	--	--	--	50 S	10	--	--	--	--	--	--
04/09/74 0905	5001 5050	15 C 262	8.6	7.5	--	3	--	--	--	46 S	9	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO O <sub>2</sub> M	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CNLOR	O+B COLOR	ML/L MGL	800 SUS S	COO V SUS S	CYANIDE PHENOLS	TOC DOC	10010E T ODOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
89 D 802.6 125.1 DISAPPOINTMENT SLOUGH AT BISHOP CUT																	
CONTINUED																	
04/24/74 0755	5001 5050	16 C 105	8.9	7.3	--	3	--	--	--	-- 49	-- 5	-- 7	--	--	--	--	--
05/08/74 0750	5001 5050	20 C 182	6.6	7.5	--	3	--	--	--	-- 39	-- 5	-- 6	--	--	--	--	--
05/22/74 0710	5001 5050	17 C 150	7.3	7.3	--	3	--	--	--	-- 50	-- 5	-- 6	--	--	--	--	--
06/05/74 0650	5001 5050	22 C 152	6.4	6.8	--	3	--	--	--	-- 62	-- 5	-- 12	--	--	--	--	--
06/24/74 1030	5001 5050	23 C 165	6.5	7.1	--	3	--	--	--	-- 65	-- 5	-- 17	--	--	--	--	--
07/08/74 0950	5001 5050	22 C 170	6.2	7.9	--	3	--	--	--	-- 50	-- 5	-- 10	--	--	--	--	--
07/22/74 1025	5001 5050	25 C 180	6.3	7.4	--	3	--	--	--	-- 54	-- 5	-- 9	--	--	--	--	--
08/06/74 0915	5001 5050	25 C 182	7.0	7.2	--	3	--	--	--	-- 41	-- 5	-- 8	--	--	--	--	--
08/22/74 1105	5001 5050	24.0C 195	7.7	7.6	--	3	--	--	--	-- 42	-- 5	-- 4	--	--	--	--	--
09/04/74 0900	5001 5050	22 C 190	7.1	7.6	--	3	--	--	--	-- 50	-- 5	-- 7	--	--	--	--	--
09/18/74 0835	5001 5050	22 C 150	7.3	7.3	--	3	--	--	--	-- 35	-- 5	-- 8	--	--	--	--	--
89 D 802.6 136.8 FRANKS TRACT NEAR RUSSOS LANDING																	
10/02/73 1235	5001 5050	17.0C 223	7.9	7.8 8.2	--	3	--	--	--	-- 21	-- 5	-- 5	--	--	--	--	--
10/30/73 1055	5001 5050	18.0C 157	9.3	6.7 7.6	--	3	--	--	--	-- 18	-- 5	-- 9	--	--	--	--	--
12/04/73 1400	5001 5050	10.0C 131	9.6	7.1 7.9	--	3	--	--	--	-- 28	-- 5	-- 5	--	--	--	--	--
01/15/74 1310	5001 5050	8.0C 292	10.0	7.4 7.7	--	3	--	--	--	-- 20	-- 5	-- 7	--	--	--	--	--
02/13/74 1240	5001 5050	9.0C 224	10.6	7.5	--	3	--	--	--	-- 43	-- 5	-- 17	--	--	--	--	--
03/19/74 1810	5001 5050	14.0C 155	9.1	7.7	--	3	--	--	--	-- 26	-- 5	-- 4	--	--	--	--	--
04/03/74 1515	5001 5050	14 C 147	9.2	7.5	--	3	--	--	--	-- 36	-- 5	-- 4	--	--	--	--	--
04/17/74 1505	5001 5050	16 C 189	9.6	7.7	--	3	--	--	--	-- 32	-- 5	-- 4	--	--	--	--	--
04/30/74 1335	5001 5050	18 C 162	9.6	7.7	--	3	--	--	--	-- 30	-- 5	-- 3	--	--	--	--	--
05/14/74 1225	5001 5050	19 C 150	9.2	7.8	--	3	--	--	--	-- 44	-- 5	-- 5	--	--	--	--	--
06/12/74 1155	5001 5050	20 C 142	8.6	8.1	--	3	--	--	--	-- 61	-- 5	-- 10	--	--	--	--	--
06/26/74 1140	5001 5050	21 C 129	7.9	8.1	--	3	--	--	--	-- 41	-- 5	-- 5	--	--	--	--	--
07/10/74 0935	5001 5050	21 C 202	7.8	7.8	--	3	--	--	--	-- 34	-- 5	-- 7	--	--	--	--	--
07/24/74 1005	5001 5050	24 C 247	7.6	7.7	--	3	--	--	--	-- 39	-- 5	-- 4	--	--	--	--	--
08/13/74 1515	5001 5050	22 C 370	8.0	7.8	--	3	--	--	--	-- 40	-- 5	-- 3	--	--	--	--	--
08/27/74 1510	5001 5050	23 C 217	8.5	8.0	--	3	--	--	--	-- 58	-- 5	-- 10	--	--	--	--	--
09/12/74 1810	5001 5050	23 C 161	9.0	8.0	--	3	--	--	--	-- 42	-- 5	-- 10	--	--	--	--	--
09/24/74 1335	5001 5050	21 C 157	9.3	8.1	--	3	--	--	--	-- 25	-- 5	-- 6	--	--	--	--	--
89 D 802.6 147.6 SHERMAN LAKE NEAR ANTIOCH																	
10/04/73 1055	5001 5050	20.0C 369	7.1	7.6 8.0	--	3	--	--	--	-- 44	-- 5	-- 11	--	--	--	--	--
11/01/73 0920	5001 5050	17.0C 308	8.1	7.4 8.0	--	3	--	--	--	-- 41	-- 5	-- 3	--	--	--	--	--
12/06/73 1245	5001 5050	10.0C 129	9.7	7.0 7.9	--	3	--	--	--	-- 82	-- 5	-- 11	--	--	--	--	--
01/17/74 1210	5001 5050	10.0C 143	10.8	7.5 7.7	--	3	--	--	--	-- 32	-- 5	-- 6	--	--	--	--	--
02/14/74 1145	5001 5050	9.0C 142	10.5	7.5	--	3	--	--	--	-- 55	-- 5	-- 10	--	--	--	--	--
03/21/74 1425	5001 5050		9.4	7.7	--	3	--	--	--	-- 44	-- 5	-- 4	--	--	--	--	--
04/02/74 1145	5001 5050	11 C 110	10.2	7.7	--	3	--	--	--	-- 80	-- 5	-- 10	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T-L CHLOR	SET 5 O-B ML/L COLOR MG/L	BOD SUS 5	COD V SUS 5	CYANIDE PHENOLS	TOC DOC	IODIDE T ODO	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
89 D 802.6 147.6 SHERMAN LAKE NEAR ANTIOCH																
CONTINUED																
04/17/74 1210	5001 5050	18 C 149	9.6	7.5	--	3	--	--	55	5	--	--	--	--	--	--
04/30/74 1100	5001 5050	14 C 161	9.2	7.5	--	3	--	--	46	5	2	--	--	--	--	--
05/14/74 0955	5001 5050	18 C 141	9.0	7.5	--	3	--	--	47	5	2	--	--	--	--	--
06/12/74 0955	5001 5050	20 C 158	8.3	8.2	--	3	--	--	70	5	10	--	--	--	--	--
06/26/74 0925	5001 5050	20 C 245	7.8	7.9	--	3	--	--	62	5	8	--	--	--	--	--
07/10/74 0740	5001 5050	20 C 760	7.6	7.8	--	3	--	--	63	5	10	--	--	--	--	--
07/24/74 0805	5001 5050	23 C 918	7.4	7.7	--	3	--	--	64	5	5	--	--	--	--	--
08/13/74 1320	5001 5050	21 C 685	7.7	7.8	--	3	--	--	49	5	2	--	--	--	--	--
08/27/74 1325	5001 5050	22 C 400	8.0	7.7	--	3	--	--	56	5	4	--	--	--	--	--
09/12/74 1330	5001 5050	22 C 196	8.3	7.9	--	3	--	--	55	5	7	--	--	--	--	--
09/24/74 1150	5001 5050	20 C 178	8.5	7.9	--	3	--	--	44	5	7	--	--	--	--	--
89 D 802.7 123.3 DISAPPOINTMENT SLOUGH NEAR LODI																
10/15/73 1100	5001 5050	19 C 158	7.6	7.4 7.7	--	3	--	--	56	5	8	--	--	--	--	--
11/13/73 1130	5001 5050	14 C 241	6.7	7.7 8.0	--	3	--	--	51	5	12	--	--	--	--	--
12/11/73 1055	5001 5050	8 C 265	8.3	7.4 7.7	--	3	--	--	47	5	8	--	--	--	--	--
01/09/74 0925	5001 5050	8 C 150	8.4	6.8 7.5	--	3	--	--	80	5	16	--	--	--	--	--
02/06/74 1030	5001 5050	7 C 297	8.9	7.1	--	3	--	--	50	5	8	--	--	--	--	--
89 D 802.9 132.0 SAN JOAQUIN RIVER NEAR MOUTH OF MIDDLE RIVER																
03/25/74 0845	5001 5050	13 C 139	9.5	7.2	--	3	--	--	45	5	7	--	--	--	--	--
04/09/74 0710	5001 5050	13 C 191	8.9	6.9	--	3	--	--	25	5	4	--	--	--	--	--
04/25/74 0710	5001 5050	15 C 170	8.8	7.0	--	3	--	--	31	5	5	--	--	--	--	--
05/09/74 0705	5001 5050	19 C 151	8.1	7.5	--	3	--	--	32	5	4	--	--	--	--	--
05/22/74 0635	5001 5050	17 C 144	8.3	7.4	--	3	--	--	50	5	9	--	--	--	--	--
06/05/74 0615	5001 5050	21 C 141	7.5	7.3	--	3	--	--	41	5	7	--	--	--	--	--
06/24/74 0930	5001 5050	21 C 133	7.0	7.4	--	3	--	--	31	5	3	--	--	--	--	--
07/08/74 0850	5001 5050	22.0C 142	7.1	7.5	--	3	--	--	34	5	10	--	--	--	--	--
07/22/74 0835	5001 5050	23 C 161	7.8	7.3	--	3	--	--	35	5	8	--	--	--	--	--
08/06/74 0800	5001 5050	23 C 192	7.9	7.7	--	3	--	--	30	5	6	--	--	--	--	--
08/22/74 0955	5001 5050	22 C 166	7.2	7.5	--	3	--	--	23	5	2	--	--	--	--	--
09/05/74 0840	5001 5050	22 C 150	8.0	7.7	--	3	--	--	35	5	8	--	--	--	--	--
09/18/74 0740	5001 5050	21 C 150	8.1	7.7	--	3	--	--	23	5	6	--	--	--	--	--
89 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT																
10/02/73 1100	5001 5050	20.0C 267	7.8	7.8 8.0	--	3	--	--	23	5	5	--	--	--	--	--
10/30/73 0925	5001 5050	16.0C 184	8.6	6.9 7.6	--	3	--	--	22	5	10	--	--	--	--	--
12/04/73 1240	5001 5050	11.0C 132	9.6	7.1 7.9	--	3	--	--	34	5	6	--	--	--	--	--
01/15/74 1140	5001 5050	8.0C 234	10.0	7.4 7.8	--	3	--	--	28	5	5	--	--	--	--	--
02/13/74 1110	5001 5050	9.0C 193	10.6	7.6	--	3	--	--	47	5	11	--	--	--	--	--
03/19/74 1440	5001 5050	14.0C 150	9.0	7.7	--	3	--	--	28	5	4	--	--	--	--	--



TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T-L CHLOR	SET S O-G ML/L COLOR MO/L	800 SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
89 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT																
CONTINUED																
04/03/74 1450	5001 5050	13 C 131	9.7	7.5	--	3	--	--	56	5	4	--	--	--	--	--
04/18/74 1450	5001 5050	15 C 161	9.0	7.6	--	3	--	--	31	5	4	--	--	--	--	--
05/01/74 1410	5001 5050	17 C 161	9.8	7.7	--	3	--	--	40	5	6	--	--	--	--	--
05/15/74 1240	5001 5050	18 C 139	9.0	7.9	--	3	--	--	34	5	4	--	--	--	--	--
06/13/74 1210	5001 5050	20 C 136	8.6	8.1	--	3	--	--	45	5	9	--	--	--	--	--
06/27/74 1205	5001 5050	21 C 128	8.6	8.0	--	3	--	--	50	5	12	--	--	--	--	--
07/10/74 0915	5001 5050	21 C 345	7.6	7.8	--	3	--	--	34	5	8	--	--	--	--	--
07/24/74 0940	5001 5050	24 C 400	7.0	7.7	--	3	--	--	40	5	7	--	--	--	--	--
08/13/74 1450	5001 5050	22 C 544	7.8	7.9	--	3	--	--	35	5	2	--	--	--	--	--
08/27/74 1455	5001 5050	22 C 355	8.1	8.0	--	3	--	--	41	5	9	--	--	--	--	--
09/12/74 1035	5001 5050	22 C 180	8.7	8.0	--	3	--	--	40	5	8	--	--	--	--	--
09/24/74 1315	5001 5050	20 C 169	8.9	8.0	--	3	--	--	28	5	6	--	--	--	--	--
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO																
10/04/73 1040	5001 5050	19.0C 457	7.7	7.8 8.2	--	3	--	--	0.9 R 36	8 5	12	--	--	--	--	--
11/01/73 0910	5001 5050	17.0C 360	8.2	7.4 7.9	--	3	--	--	38	5	2	--	--	--	--	--
12/06/73 1205	5001 5050	10.0C 127	9.8	7.0 7.9	--	3	--	--	1.1 R 83	8 5	10	--	--	--	--	--
12/06/73 1206	5050	130			--	18	--	--	72	5	10	--	--	--	--	--
12/06/73 1207	5050	271			--	36	--	--	69	5	10	--	--	--	--	--
01/17/74 1145	5001 5050	9.0C 133	10.3	7.6 7.8	--	3	--	--	0.9 R 25	8 5	4	--	--	--	--	--
02/14/74 1010	5001 5050	9.0C 148	10.3	7.6	--	3	--	--	0.9 R 56	8 5	12	--	--	--	--	--
03/21/74 1405	5001 5050	13.0C 143	8.7	7.8	--	3	--	--	1.2 R 37	8 5	3	--	--	--	--	--
04/02/74 1120	5001 5050	12 C 129	10.1	7.7	--	3	--	--	1.9 R 91	8 5	11	--	--	--	--	--
04/17/74 1145	5001 5050	15 C 143	9.3	7.3	--	3	--	--	42	5	5	--	--	--	--	--
04/30/74 1035	5001 5050	16 C 162	9.2	7.5	--	3	--	--	1.7 R 34	8 5	2	--	--	--	--	--
05/14/74 0940	5001 5050	18 C 159	9.0	7.6	--	3	--	--	37	5	3	--	--	--	--	--
06/12/74 0830	5001 5050	20 C 178	8.3	8.1	--	3	--	--	1.4 R 47	8 5	11	--	--	--	--	--
06/26/74 0850	5001 5050	20 C 228	7.0	7.9	--	3	--	--	46	5	7	--	--	--	--	--
07/10/74 0720	5001 5050	20 C 1150	7.2	7.9	--	3	--	--	1.1 R 53	8 5	10	--	--	--	--	--
07/24/74 0745	5001 5050	23 C 1240	7.6	7.7	--	3	--	--	66	5	7	--	--	--	--	--
08/14/74 1405	5001 5050	21 C 572	7.8	7.9	--	3	--	--	0.8 R 46	8 5	2	--	--	--	--	--
08/27/74 1310	5001 5050	21 C 402	7.3	7.7	--	3	--	--	58	5	4	--	--	--	--	--
09/12/74 1315	5001 5050	22 C 208	8.1	7.9	--	3	--	--	0.8 R 62	8 5	9	--	--	--	--	--
09/24/74 1120	5001 5050	19 C 163	8.6	7.8	--	3	--	--	37	5	7	--	--	--	--	--
89 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATO POINT																
10/02/73 1205	5001 5050	18.0C 180	8.3	7.8 7.9	--	3	--	--	12	5	4	--	--	--	--	--
10/30/73 1030	5001 5050	16.0C 163	8.8	6.8 7.7	--	3	--	--	14	5	8	--	--	--	--	--
12/04/73 1335	5001 5050	11 C 120	9.6	7.0 7.8	--	3	--	--	43	5	8	--	--	--	--	--
01/15/74 1235	5001 5050	8.0C 179	10.2	7.5 7.7	--	3	--	--	29	5	7	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T-L CHLOR	SET S		800 SUS S	V	COD SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T DOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT	
								0.6 COLOR	ML/L MØ/L										
B9 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATO POINT																			CONTINUED
02/13/74 1205	5001 5050	9.0C 164	10.9	7.5	--	3	--	--	--	44	5	11	--	--	--	--	--	--	
03/19/74 1545	5001 5050	14.0C 128	9.5	7.7	--	3	--	--	--	30	5	4	--	--	--	--	--	--	
04/02/74 1420	5001 5050	12 C 124	9.6	7.6	--	3	--	--	--	37	5	9	--	--	--	--	--	--	
04/17/74 1445	5001 5050	15 C 146	9.5	7.6	--	3	--	--	--	31	5	4	--	--	--	--	--	--	
04/30/74 1315	5001 5050	16 C 145	9.1	7.3	--	3	--	--	--	31	5	2	--	--	--	--	--	--	
05/14/74 1205	5001 5050	18 C 133	8.7	7.3	--	3	--	--	--	28	5	3	--	--	--	--	--	--	
06/12/74 1135	5001 5050	20 C 139	8.3	7.9	--	3	--	--	--	49	5	9	--	--	--	--	--	--	
06/26/74 1125	5001 5050	21 C 127	7.5	7.8	--	3	--	--	--	26	5	3	--	--	--	--	--	--	
07/10/74 1000	5001 5050	21 C 143	7.8	7.7	--	3	--	--	--	25	5	6	--	--	--	--	--	--	
07/24/74 1025	5001 5050	24 C 159	7.6	7.7	--	3	--	--	--	27	5	3	--	--	--	--	--	--	
08/13/74 1530	5001 5050	22 C 199	7.9	7.8	--	3	--	--	--	29	5	2	--	--	--	--	--	--	
08/27/74 1530	5001 5050	22 C 154	8.2	7.8	--	3	--	--	--	29	5	8	--	--	--	--	--	--	
09/12/74 1550	5001 5050	22 C 155	8.3	7.8	--	3	--	--	--	29	5	6	--	--	--	--	--	--	
09/24/74 1350	5001 5050	20 C 157	8.3	7.8	--	3	--	--	--	22	5	5	--	--	--	--	--	--	
B9 D 805.0 128.1 WHITE SLOUGH AT CORREIA FERRY (SITE)																			
03/25/74 0915	5001 5050	15 C 107	8.8	7.2	--	2	--	--	--	60	5	9	--	--	--	--	--	--	
04/09/74 0810	5001 5050	13 C 82	9.6	7.2	--	3	--	--	--	30	5	3	--	--	--	--	--	--	
04/24/74 0700	5001 5050	13 C 120	9.1	7.4	--	3	--	--	--	22	5	3	--	--	--	--	--	--	
05/08/74 0700	5001 5050	18 C 115	8.2	7.4	--	3	--	--	--	23	5	3	--	--	--	--	--	--	
05/22/74 0620	5001 5050	16 C 120	7.8	7.2	--	3	--	--	--	26	5	2	--	--	--	--	--	--	
06/05/74 0600	5001 5050	19 C 86	7.7	7.0	--	3	--	--	--	36	5	7	--	--	--	--	--	--	
06/24/74 0930	5001 5050	20 C 120	7.9	7.2	--	3	--	--	--	26	5	8	--	--	--	--	--	--	
07/08/74 0900	5001 5050	22 C 132	7.1	7.5	--	3	--	--	--	32	5	9	--	--	--	--	--	--	
07/22/74 0920	5001 5050	23 C 145	7.2	7.5	--	3	--	--	--	28	5	6	--	--	--	--	--	--	
08/06/74 0830	5001 5050	23 C 139	7.1	7.1	--	3	--	--	--	26	5	8	--	--	--	--	--	--	
08/22/74 1015	5001 5050	22.0C 132	7.9	7.1	--	3	--	--	--	36	5	4	--	--	--	--	--	--	
09/04/74 0810	5001 5050	21 C 141	7.9	7.5	--	3	--	--	--	30	5	7	--	--	--	--	--	--	
09/18/74 0755	5001 5050	20 C 142	7.7	7.4	--	3	--	--	--	25	5	5	--	--	--	--	--	--	
B9 D 805.1 144.3 SACRAMENTO RIVER AT EMMATON																			
10/04/73 1120	5001 5050	19.0C 295	8.3	7.7 8.0	--	3	--	--	--	30	5	11	--	--	--	--	--	--	
11/01/73 0945	5001 5050	16.0C 220	8.7	7.3 7.9	--	3	--	--	--	26	5	3	--	--	--	--	--	--	
12/06/73 1315	5001 5050	10.0C 115	9.8	7.0 7.9	--	3	--	--	--	62	5	8	--	--	--	--	--	--	
01/17/74 1245	5001 5050	10.0C 140	10.5	7.6 7.6	--	3	--	--	--	28	5	6	--	--	--	--	--	--	
02/14/74 1120	5001 5050	9.0C 142	10.5	7.5	--	3	--	--	--	50	5	10	--	--	--	--	--	--	
03/21/74 1455	5001 5050	13.0C 142	9.7	7.8	--	3	--	--	--	37	5	4	--	--	--	--	--	--	
04/02/74 1210	5001 5050	11 C 117	9.8	7.6	--	3	--	--	--	123	5	15	--	--	--	--	--	--	
04/17/74 1240	5001 5050	15 C 134	9.6	7.6	--	3	--	--	--	40	5	5	--	--	--	--	--	--	
04/30/74 1125	5001 5050	15 C 145	9.2	7.5	--	3	--	--	--	38	5	2	--	--	--	--	--	--	

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	SET 5	BOD SUS 5	COD V SUS 5	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
								O+8 ML/L NO/L								
B9 D 805.1 144.3 SACRAMENTO RIVER AT ENMATON CONTINUED																
05/14/74 1015	5001 5050	17 C 131	9.1	7.5	--	3	--	--	32	5	2	--	--	--	--	--
06/12/74 0940	5001 5050	19 C 143	8.4	8.1	--	3	--	--	43	5	8	--	--	--	--	--
06/26/74 0945	5001 5050	20 C 167	8.2	7.9	--	3	--	--	34	5	6	--	--	--	--	--
07/10/74 0800	5001 5050	21 C 249	7.9	7.9	--	3	--	--	36	5	8	--	--	--	--	--
07/24/74 0835	5001 5050	23 C 273	7.4	7.7	--	3	--	--	38	5	4	--	--	--	--	--
08/13/74 1340	5001 5050	21 C 208	7.9	7.8	--	3	--	--	39	5	2	--	--	--	--	--
08/27/74 1345	5001 5050	21 C 207	8.3	7.7	--	3	--	--	30	5	1	--	--	--	--	--
09/12/74 1400	5001 5050	21 C 163	8.5	7.9	--	3	--	--	28	5	6	--	--	--	--	--
09/24/74 1210	5001 5050	19 C 151	8.7	7.9	--	3	--	--	26	5	5	--	--	--	--	--
B9 D 805.2 124.1 WHITE SLOUGH AT RIO BLANCO TRACT																
10/15/73 1015	5001 5050	20 C 522	1.3	7.4 7.3	--	3	--	--	13	5	7	--	--	--	--	--
02/06/74 0740	5001 5050	7 C 775	3.7	7.2	--	3	--	--	26	5	13	--	--	--	--	--
B9 D 805.2 126.0 WHITE SLOUGH NEAR LODI																
11/14/73 1020	5001 5050	13 C 188	7.2	7.6 7.8	--	3	--	--	18	5	5	--	--	--	--	--
12/11/73 0940	5001 5050	7 C 181	9.0	6.9 7.6	--	3	--	--	25	5	4	--	--	--	--	--
B9 D 805.8 140.1 SAN JOAQUIN RIVER AT TWITCHELL ISLAND																
10/02/73 1120	5001 5050	20.0C 238		7.8 8.0	--	3	--	--	1.4 B 20	5	4	--	--	--	--	--
10/30/73 0950	5001 5050	16.0C 163	8.8	6.9 7.7	--	3	--	--	19	5	10	--	--	--	--	--
12/04/73 1305	5001 5050	11.0C 124	9.6	7.1 7.8	--	3	--	--	1.2 B 40	5	7	--	--	--	--	--
01/15/74 1200	5001 5050	8.0C 166	10.3	7.5 7.6	--	3	--	--	1.1 B 28	5	6	--	--	--	--	--
02/13/74 1135	5001 5050	9.0C 153	10.7	7.5	--	3	--	--	1.2 B 62	5	13	--	--	--	--	--
03/19/74 1505	5001 5050	13.0C 141	9.4	7.7	--	3	--	--	1.5 B 32	5	4	--	--	--	--	--
04/02/74 1340	5001 5050	12 C 127	9.6	7.7	--	3	--	--	1.5 B 53	5	10	--	--	--	--	--
04/17/74 1410	5001 5050	15 C 153	9.5	7.6	--	3	--	--	40	5	2	--	--	--	--	--
04/30/74 1235	5001 5050	16 C 153	9.4	7.5	--	3	--	--	3.4 B 35	5	2	--	--	--	--	--
05/14/74 1120	5001 5050	18 C 135	9.0	7.4	--	3	--	--	23	5	2	--	--	--	--	--
06/12/74 1100	5001 5050	20 C 140	8.3	8.1	--	3	--	--	1.1 B 45	5	9	--	--	--	--	--
06/26/74 1045	5001 5050	20 C 133	7.8	8.0	--	3	--	--	30	5	5	--	--	--	--	--
07/10/74 1030	5001 5050	21 C 230	7.8	7.9	--	3	--	--	1.2 B 30	5	8	--	--	--	--	--
07/24/74 1105	5001 5050	24 C 277	7.5	7.7	--	3	--	--	24	5	2	--	--	--	--	--
08/13/74 1610	5001 5050	22 C 423	7.9	7.9	--	3	--	--	0.8 B 30	5	2	--	--	--	--	--
08/27/74 1610	5001 5050	22 C 292	8.5	8.0	--	3	--	--	35	5	13	--	--	--	--	--
09/12/74 1515	5001 5050	22 C 166	8.9	8.0	--	3	--	--	1.0 B 34	5	7	--	--	--	--	--
09/24/74 1425	5001 5050	20 C 157	8.9	8.0	--	3	--	--	23	5	6	--	--	--	--	--
B9 D 805.9 135.2 SAN JOAQUIN RIVER NEAR SAN ANDREAS LANDING																
03/19/74 1530	5001 5050	14.0C 127	9.3	7.7	--	3	--	--	27	5	4	--	--	--	--	--
03/26/74 1105	5001 5050	13 C 116	9.3	7.6	--	3	--	--	50	5	7	--	--	--	--	--
04/02/74 1405	5001 5050	12 C 122	9.4	7.7	--	3	--	--	29	5	8	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	0+G COLOR	SET S ML/L MG/L	BOD SUS S	COD SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T OOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
89 D 805.9 135.2 SAN JOAQUIN RIVER NEAR SAN ANDREAS LANDING																	
CONTINUED																	
04/10/74 0915	5001 5050	13 C 125	9.5	7.3	--	3	--	--	--	34 5	5	--	--	--	--	--	--
04/17/74 1435	5001 5050	15 C 143	9.2	7.6	--	3	--	--	--	30 5	2	--	--	--	--	--	--
04/24/74 0830	5001 5050	14 C 141	8.4	7.2	--	3	--	--	--	7 5	2	--	--	--	--	--	--
04/30/74 1300	5001 5050	16 C 146	9.4	7.4	--	3	--	--	--	32 5	2	--	--	--	--	--	--
05/08/74 0745	5001 5050	17 C 139	9.3	7.5	--	3	--	--	--	37 5	4	--	--	--	--	--	--
05/14/74 1155	5001 5050	18 C 127	8.4	7.3	--	3	--	--	--	26 5	2	--	--	--	--	--	--
05/23/74 0845	5001 5050	17 C 134	8.8	7.4	--	3	--	--	--	50 5	6	--	--	--	--	--	--
06/06/74 0755	5001 5050	21 C 136	7.9	7.4	--	3	--	--	--	38 5	5	--	--	--	--	--	--
06/12/74 1125	5001 5050	20 C 130	8.2	7.9	--	3	--	--	--	45 5	8	--	--	--	--	--	--
06/25/74 1145	5001 5050	20 C 124	7.5	7.7	--	3	--	--	--	35 5	5	--	--	--	--	--	--
06/26/74 1110	5001 5050	20 C 126	7.7	7.9	--	3	--	--	--	32 5	5	--	--	--	--	--	--
07/09/74 1020	5001 5050	22 C 143	7.1	7.9	--	3	--	--	--	41 5	10	--	--	--	--	--	--
07/10/74 1010	5001 5050	21 C 153	7.8	7.7	--	3	--	--	--	29 5	6	--	--	--	--	--	--
07/23/74 1030	5001 5050	23 C 177	7.7	7.7	--	3	--	--	--	38 5	4	--	--	--	--	--	--
07/24/74 1040	5001 5050	24 C 193	7.6	7.6	--	3	--	--	--	23 5	2	--	--	--	--	--	--
08/07/74 1010	5001 5050	23 C 237	7.6	7.7	--	3	--	--	--	26 5	4	--	--	--	--	--	--
08/13/74 1545	5001 5050	22 C 238	8.1	7.8	--	3	--	--	--	29 5	0	--	--	--	--	--	--
08/23/74 1220	5001 5050	22 C 170	7.9	7.7	--	3	--	--	--	40 5	3	--	--	--	--	--	--
08/27/74 1545	5001 5050	22 C 172	8.3	7.8	--	3	--	--	--	25 5	10	--	--	--	--	--	--
09/04/74 1000	5001 5050	21 C 150	8.2	8.0	--	3	--	--	--	28 5	7	--	--	--	--	--	--
09/12/74 1525	5001 5050	22 C 155	8.6	7.8	--	3	--	--	--	22 5	6	--	--	--	--	--	--
09/19/74 1000	5001 5050	20 C 185	8.3	7.7	--	3	--	--	--	26 5	5	--	--	--	--	--	--
09/24/74 1405	5001 5050	20 C 151	8.6	7.8	--	3	--	--	--	17 5	5	--	--	--	--	--	--
89 D 807.0 129.9 MOKELUMNE RIVER, SOUTH FORK, AT STATEN ISLAND																	
11/14/73 1255	5001 5050	14 C 145	8.3	7.6 7.8	--	3	--	--	--	1.4 B 21 5	-- 6	--	--	--	--	--	--
12/12/73 1130	5001 5050	8 C 131	9.8	7.1 7.8	--	3	--	--	--	0.8 B 26 5	-- 4	--	--	--	--	--	--
01/10/74 1220	5001 5050	6 C 150	10.3	7.7	--	3	--	--	--	2.3 B 30 5	-- 2	--	--	--	--	--	--
02/07/74 1020	5001 5050	8 C 128	10.9	7.2	--	3	--	--	--	1.3 B 61 5	-- 9	--	--	--	--	--	--
89 D 807.6 129.7 MOKELUMNE RIVER, SOUTH FORK, BELOW SYCAMORE SLOUGH																	
03/26/74 0910	5001 5050	12 C 111	9.8	7.3	--	3	--	--	--	46 5	7	--	--	--	--	--	--
04/10/74 0720	5001 5050	14 C 92	8.7	7.2	--	3	--	--	--	42 5	6	--	--	--	--	--	--
04/24/74 0625	5001 5050	14 C 110	8.4	7.2	--	3	--	--	--	31 5	2	--	--	--	--	--	--
05/08/74 0600	5001 5050	17 C 120	8.3	7.6	--	3	--	--	--	31 5	4	--	--	--	--	--	--
05/23/74 0710	5001 5050	17 C 113	8.6	7.3	--	3	--	--	--	49 5	8	--	--	--	--	--	--
06/06/74 0625	5001 5050	20 C 110	7.7	7.3	--	3	--	--	--	30 5	2	--	--	--	--	--	--
06/25/74 1005	5001 5050	20 C 126	7.3	7.6	--	3	--	--	--	33 5	4	--	--	--	--	--	--
07/09/74 0840	5001 5050	21 C 129	6.5	7.4	--	3	--	--	--	41 5	10	--	--	--	--	--	--
07/23/74 0850	5001 5050	24 C 133	7.7	7.6	--	3	--	--	--	28 5	3	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO O.M.	F-PH L-PH	DISCH MGAS	DEPTH TURB	T-L CHLOR	O-B COLOR	SET S ML/L MB/L	BOO SUS S	COO V SUS S	CYANIDE PHENOLS	TOC DOC	IOOIDE T ODOOR	BROMIDE SULFITE	T SULF O SULF	CC EXT CA EXT
B9 D 807.6 129.7 MOKELUMNE RIVER, SOUTH FORK, BELOW SYCAMORE SLOUGH CONTINUED																	
08/07/74 0830	5001 5050	24 C 134	6.9	7.5	--	3	--	--	--	33 5	1	--	--	--	--	--	--
08/23/74 1040	5001 5050	22 C 147	7.6	7.5	--	3	--	--	--	30 5	2	--	--	--	--	--	--
09/04/74 0725	5001 5050	20 C 144	8.1	7.9	--	3	--	--	--	25 5	6	--	--	--	--	--	--
09/19/74 0825	5001 5050	20 C 180	8.4	7.3	--	3	--	--	--	25 5	6	--	--	--	--	--	--
B9 D 808.5 128.0 SYCAMORE SLOUGH NEAR MOUTH																	
03/26/74 0845	5001 5050	14 C 176	7.8	7.3	--	3	--	--	--	3.0 8 36 5	-- 7	--	--	--	--	--	--
04/10/74 0855	5001 5050	14 C 157	8.4	7.2	--	3	--	--	--	2.8 8 41 5	-- 6	--	--	--	--	--	--
04/24/74 0550	5001 5050	15 C 155	9.0	7.7	--	3	--	--	--	36 5	6	--	--	--	--	--	--
05/08/74 0535	5001 5050	19 C 95	9.1	7.8	--	3	--	--	--	2.9 8 27 5	-- 8	--	--	--	--	--	--
05/23/74 0650	5001 5050	18 C 107	8.6	7.3	--	3	--	--	--	34 5	8	--	--	--	--	--	--
06/06/74 0900	5001 5050	22 C 99	7.5	7.0	--	3	--	--	--	1.7 8 35 5	-- 6	--	--	--	--	--	--
06/25/74 0940	5001 5050	22 C 96	6.8	8.1	--	3	--	--	--	31 5	5	--	--	--	--	--	--
07/09/74 0820	5001 5050	22 C 122	6.0	7.3	--	3	--	--	--	1.5 8 31 5	-- 10	--	--	--	--	--	--
07/23/74 0825	5001 5050	25 C 132	8.0	7.5	--	3	--	--	--	20 5	3	--	--	--	--	--	--
08/07/74 0800	5001 5050	24 C 140	7.2	7.5	--	3	--	--	--	2.3 8 32 5	-- 3	--	--	--	--	--	--
08/23/74 1015	5001 5050	23 C 133	7.6	7.7	--	3	--	--	--	26 5	3	--	--	--	--	--	--
09/04/74 0640	5001 5050	22 C 129	7.2	7.7	--	3	--	--	--	1.8 8 33 5	-- 8	--	--	--	--	--	--
09/19/74 0755	5001 5050	21 C 171	7.6	7.7	--	3	--	--	--	28 5	6	--	--	--	--	--	--
B9 D 808.7 133.4 MOKELUMNE RIVER, NORTH FORK, AT BROAD SLOUGH																	
03/26/74 0945	5001 5050	13 C 107	9.1	7.5	--	3	--	--	--	39 5	6	--	--	--	--	--	--
04/10/74 0755	5001 5050	13 C 88	8.6	7.1	--	3	--	--	--	27 5	5	--	--	--	--	--	--
04/24/74 0715	5001 5050	14 C 110	8.5	7.1	--	3	--	--	--	33 5	2	--	--	--	--	--	--
05/08/74 0635	5001 5050	17 C 132	8.3	7.4	--	3	--	--	--	32 5	3	--	--	--	--	--	--
05/23/74 0740	5001 5050	16 C 126	8.8	7.3	--	3	--	--	--	44 5	6	--	--	--	--	--	--
06/06/74 0650	5001 5050	20 C 132	7.6	7.3	--	3	--	--	--	28 5	4	--	--	--	--	--	--
06/25/74 1035	5001 5050	20 C 127	7.3	7.7	--	3	--	--	--	30 5	4	--	--	--	--	--	--
07/09/74 0910	5001 5050	21 C 123	7.0	7.6	--	3	--	--	--	29 5	8	--	--	--	--	--	--
07/23/74 0920	5001 5050	23 C 126	7.9	7.6	--	3	--	--	--	23 5	2	--	--	--	--	--	--
08/07/74 0905	5001 5050	23 C 130	7.3	7.5	--	3	--	--	--	21 5	2	--	--	--	--	--	--
08/23/74 1110	5001 5050	21 C 131	7.7	7.6	--	3	--	--	--	38 5	2	--	--	--	--	--	--
09/04/74 0800	5001 5050	20 C 153	7.5	8.0	--	3	--	--	--	44 5	7	--	--	--	--	--	--
09/19/74 0855	5001 5050	19 C 167	8.4	7.6	--	3	--	--	--	29 5	5	--	--	--	--	--	--
B9 D 808.8 125.8 SYCAMORE SLOUGH AT DRAIN																	
10/16/73 1450	5001 5050	19 C 245	4.6	7.5 7.6	--	2	--	--	--	36 5	17	--	--	--	--	--	--
11/14/73 1500	5001 5050	14 C 680	0.1	7.5 6.9	--	2	--	--	--	75 5	52	--	--	--	--	--	--
12/12/73 1430	5001 5050	8 C 930	0.0	7.3 7.3	--	3	--	--	--	98 5	77	--	--	--	--	--	--
01/10/74 1450	5001 5050	6 C 1140	0.0	7.3	--	2	--	--	--	136 5	94	--	--	--	--	--	--
02/07/74 1400	5001 5050	9 C 1065	0.0	7.4	--	2	--	--	--	93 5	76	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T+L CHLOR	0+G COLOR	SET 5 ML/L MG/L	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IOOIDE T OOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
89 0 809.0 135.8 GEORGIANA SLOUGH NEAR ISLETON																	
03/26/74 1020	5001 5050	12 C 103	10.0	7.6	--	3	--	--	--	-- 57	5	-- 9	--	--	--	--	--
04/10/74 0830	5001 5050	12 C 86	9.5	7.2	--	3	--	--	--	-- 58	5	-- 7	--	--	--	--	--
04/24/74 0745	5001 5050	13 C 109	8.9	7.1	--	3	--	--	--	-- 66	5	-- 4	--	--	--	--	--
05/08/74 0705	5001 5050	17 C 129	8.4	7.4	--	3	--	--	--	-- 30	5	-- 4	--	--	--	--	--
05/23/74 0805	5001 5050	16 C 127	9.0	7.4	--	3	--	--	--	-- 40	5	-- 5	--	--	--	--	--
06/06/74 0720	5001 5050	20 C 132	8.1	7.3	--	3	--	--	--	-- 27	5	-- 3	--	--	--	--	--
06/25/74 1110	5001 5050	20 C 130	7.3	7.7	--	3	--	--	--	-- 25	5	-- 4	--	--	--	--	--
07/09/74 0940	5001 5050	21 C 127	7.3	7.8	--	3	--	--	--	-- 26	5	-- 8	--	--	--	--	--
07/23/74 0950	5001 5050	21 C 128	8.1	7.6	--	3	--	--	--	-- 25	5	-- 3	--	--	--	--	--
08/07/74 0930	5001 5050	21 C 131	7.1	7.5	--	3	--	--	--	-- 32	5	-- 4	--	--	--	--	--
08/23/74 1135	5001 5050	21 C 140	7.9	7.6	--	3	--	--	--	-- 31	5	-- 2	--	--	--	--	--
09/04/74 0825	5001 5050	20 C 157	7.9	8.0	--	3	--	--	--	-- 45	5	-- 8	--	--	--	--	--
09/19/74 0925	5001 5050	19 C 174	8.2	7.6	--	3	--	--	--	-- 25	5	-- 5	--	--	--	--	--
89 0 809.4 141.0 SACRAMENTO RIVER BELOW RIO VISTA BRIDGE																	
10/04/73 1150	5001 5050	18.0C 156	8.0	7.7 8.1	--	3	--	--	--	-- 17	5	-- 9	--	--	--	--	--
11/01/73 1005	5001 5050	14.0C 144	9.0	7.4 8.0	--	3	--	--	--	-- 14	5	-- 1	--	--	--	--	--
12/06/73 1340	5001 5050	10.0C 105	9.9	7.0 7.9	--	3	--	--	--	-- 68	5	-- 6	--	--	--	--	--
01/17/74 1320	5001 5050	9.0C 118	10.7	7.5 7.7	--	3	--	--	--	-- 47	5	-- 6	--	--	--	--	--
02/14/74 1055	5001 5050	9.0C 148	10.5	7.6	--	3	--	--	--	-- 62	5	-- 10	--	--	--	--	--
03/21/74 1530	5001 5050	13.0C 115	9.5	7.8	--	3	--	--	--	-- 54	5	-- 5	--	--	--	--	--
04/02/74 1250	5001 5050	11 C 150	9.7	7.6	--	3	--	--	--	-- 470	5	-- 41	--	--	--	--	--
04/17/74 1310	5001 5050	14 C 117	9.3	7.5	--	3	--	--	--	-- 42	5	-- 5	--	--	--	--	--
04/30/74 1150	5001 5050	15 C 160	9.2	7.5	--	3	--	--	--	-- 37	5	-- 2	--	--	--	--	--
05/14/74 1045	5001 5050	17 C 120	8.5	7.3	--	3	--	--	--	-- 39	5	-- 3	--	--	--	--	--
06/12/74 1010	5001 5050	20 C 127	8.4	8.0	--	3	--	--	--	-- 39	5	-- 7	--	--	--	--	--
06/26/74 1010	5001 5050	20 C 138	7.7	7.9	--	3	--	--	--	-- 23	5	-- 4	--	--	--	--	--
07/10/74 0830	5001 5050	21 C 134	7.9	7.8	--	3	--	--	--	-- 24	5	-- 6	--	--	--	--	--
07/24/74 0905	5001 5050	24 C 136	8.1	7.7	--	3	--	--	--	-- 28	5	-- 1	--	--	--	--	--
08/13/74 1410	5001 5050	21 C 138	7.6	7.9	--	3	--	--	--	-- 26	5	-- 1	--	--	--	--	--
08/27/74 1415	5001 5050	21 C 144	8.2	7.7	--	3	--	--	--	-- 28	5	-- 1	--	--	--	--	--
09/12/74 1425	5001 5050	21 C 161	8.3	7.8	--	3	--	--	--	-- 35	5	-- 6	--	--	--	--	--
09/24/74 1235	5001 5050	20 C 140	8.4	7.7	--	3	--	--	--	-- 13	5	-- 4	--	--	--	--	--
89 0 810.1 127.9 HOG SLOUGH NEAR THORNTON																	
10/16/73 1410	5001 5050	19 C 500	8.0	7.9 7.7	--	3	--	--	--	-- 13	5	-- 6	--	--	--	--	--
11/14/73 1420	5001 5050	14 C 825	7.3	7.6 8.1	--	3	--	--	--	-- 19	5	-- 7	--	--	--	--	--
12/12/73 1345	5001 5050	8 C 1050	7.8	7.6 7.9	--	3	--	--	--	-- 1.5	8 39	-- 5	-- 4	--	--	--	--
01/10/74 1410	5001 5050	6 C 940	9.6	8.2	--	3	--	--	--	-- 2.6	8 18	-- 5	-- 1	--	--	--	--
02/07/74 1315	5001 5050	9 C 1050	9.9	8.0	--	3	--	--	--	-- 1.7	8 40	-- 5	-- 7	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO O.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T-L CHLOR	SET S O+O ML/L COLOR MO/L	800 SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
89 D 012.3 126.8 BEAVER SLOUGH NEAR THORNTON																
10/16/73 1320	5001 5050	19 C 175	1.2 7.6	7.4 7.6	--	3	--	--	--	14 5	10	--	--	--	--	--
11/14/73 1340	5001 5050	14 C 168	5.5 7.5	7.3 7.5	--	3	--	--	--	31 5	15	--	--	--	--	--
12/12/73 1305	5001 5050	8 C 428	2.1 7.8	7.2 7.8	--	3	--	--	--	14 5	7	--	--	--	--	--
01/10/74 1315	5001 5050	7 C 685	3.2 7.2	7.2 7.2	--	3	--	--	--	20 5	10	--	--	--	--	--
02/07/74 1215	5001 5050	9 C 725	4.8 7.6	7.6 7.6	--	3	--	--	--	26 5	14	--	--	--	--	--
89 D 014.5 133.2 SACRAMENTO RIVER NEAR RYDE																
03/26/74 0805	5001 5050	12 C 106	9.7 7.3	7.3 7.3	--	3	--	--	--	47 5	7	--	--	--	--	--
04/10/74 0745	5001 5050	12 C 67	6.5 7.3	7.3 7.3	--	3	--	--	--	55 5	5	--	--	--	--	--
04/25/74 0745	5001 5050	12 C 122	9.3 7.5	7.5 7.5	--	3	--	--	--	55 5	7	--	--	--	--	--
05/09/74 0800	5001 5050	17 C 121	7.9 7.6	7.6 7.6	--	3	--	--	--	30 5	3	--	--	--	--	--
05/23/74 0850	5001 5050	16 C 124	8.2 7.2	7.2 7.2	--	3	--	--	--	42 5	6	--	--	--	--	--
06/06/74 0645	5001 5050	20 C 121	7.6 6.9	6.9 6.9	--	3	--	--	--	44 5	6	--	--	--	--	--
06/25/74 0940	5001 5050	19 C 125	8.7 6.9	6.9 6.9	--	3	--	--	--	30 5	8	--	--	--	--	--
07/09/74 0840	5001 5050	20 C 118	8.2 7.9	7.9 7.9	--	3	--	--	--	15 5	5	--	--	--	--	--
07/23/74 0855	5001 5050	22 C 110	8.3 7.6	7.6 7.6	--	3	--	--	--	34 5	4	--	--	--	--	--
08/07/74 0900	5001 5050	22 C 126	7.9 7.4	7.4 7.4	--	3	--	--	--	30 5	6	--	--	--	--	--
08/23/74 1035	5001 5050	22.0C 140	8.0 7.4	7.4 7.4	--	3	--	--	--	25 5	0	--	--	--	--	--
09/05/74 0835	5001 5050	20 C 156	8.0 7.4	7.4 7.4	--	3	--	--	--	46 5	7	--	--	--	--	--
09/19/74 0815	5001 5050	19 C 131	8.4 7.5	7.5 7.5	--	3	--	--	--	23 5	4	--	--	--	--	--
89 D 015.3 126.3 MOKELUMNE RIVER NEAR THORNTON																
10/16/73 1140	5001 5050	15 C 51	8.7 7.4	7.3 7.4	--	3	--	--	--	8 5	4	--	--	--	--	--
11/14/73 1155	5001 5050	14 C 48	8.0 7.5	7.0 7.5	--	3	--	--	--	58 5	10	--	--	--	--	--
12/12/73 1025	5001 5050	8 C 58	10.5 7.7	6.9 7.7	--	3	--	--	--	8 5	3	--	--	--	--	--
01/10/74 1100	5001 5050	6 C 57	10.3 7.8	7.8 7.8	--	3	--	--	--	20 5	2	--	--	--	--	--
02/07/74 0915	5001 5050	7 C 100	10.8 6.8	6.8 6.8	--	3	--	--	--	40 5	10	--	--	--	--	--
03/25/74 1435	5001 5050	13 C 162	9.2 7.3	7.3 7.3	--	3	--	--	--	34 5	6	--	--	--	--	--
04/09/74 0705	5001 5050	11 C 47	8.9 6.7	6.7 6.7	--	3	--	--	--	23 5	4	--	--	--	--	--
04/24/74 0810	5001 5050	11 C 45	9.2 7.1	7.1 7.1	--	3	--	--	--	16 5	4	--	--	--	--	--
05/08/74 0600	5001 5050	18 C 62	8.5 6.8	6.8 6.8	--	3	--	--	--	21 5	2	--	--	--	--	--
05/22/74 0510	5001 5050	14 C 38	8.5 6.8	6.8 6.8	--	3	--	--	--	12 5	1	--	--	--	--	--
06/05/74 0505	5001 5050	15 C 38	8.5 6.7	6.7 6.7	--	3	--	--	--	24 5	5	--	--	--	--	--
06/24/74 0815	5001 5050	20 C 56	8.0 7.1	7.1 7.1	--	3	--	--	--	13 5	7	--	--	--	--	--
07/08/74 0745	5001 5050	20 C 45	8.2 6.2	6.2 6.2	--	3	--	--	--	7 5	2	--	--	--	--	--
07/22/74 0755	5001 5050	25 C 52	7.7 6.9	6.9 6.9	--	3	--	--	--	24 5	4	--	--	--	--	--
08/06/74 0715	5001 5050	22 C 50	7.7 6.2	6.2 6.2	--	3	--	--	--	17 5	3	--	--	--	--	--
08/22/74 0910	5001 5050	23.0C 49	8.0 6.9	6.9 6.9	--	3	--	--	--	20 5	2	--	--	--	--	--
09/04/74 0710	5001 5050	20 C 46	8.3 7.0	7.0 7.0	--	3	--	--	--	22 5	11	--	--	--	--	--
09/18/74 0700	5001 5050	19 C 43	8.3 6.9	6.9 6.9	--	3	--	--	--	20 5	4	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.H.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T-L CHLOR	O-B COLOR	ML/L MG/L	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
B9 D 819.1 130.1 SNODGRASS SLOUGH AT SOUTHERN PACIFIC RR BRIDGE																	
10/16/73	5001 1100	18 C 245	4.5	7.5 7.6	--	3	--	--	--	21	5	6	--	--	--	--	--
11/14/73	5001 1110	13 C 270	5.5	7.5 8.0	--	3	--	--	--	21	5	5	--	--	--	--	--
12/12/73	5001 0935	18 C 405	5.0	7.0 8.0	--	3	--	--	--	11	5	2	--	--	--	--	--
01/10/74	5001 1015	5 C 270	6.8	7.8	--	3	--	--	--	34	5	8	--	--	--	--	--
02/07/74	5001 0025	7 C 390	8.7	7.5	--	3	--	--	--	26	5	10	--	--	--	--	--
B9 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING																	
10/17/73	5050 1230	62 F 118	9.7	7.4 7.8	--	1.5	--	--	--	--	--	0.000	--	--	--	--	--
11/14/73	5001 1020	12 C 68	8.4	7.9 7.7	--	3	--	--	--	1.7	8	23	--	--	--	--	--
11/14/73	5050 1330	56 F 89	9.0	7.2 7.2	--	1.5	--	--	--	--	--	0.002	--	--	--	--	--
12/12/73	5001 0900	18 C 125	9.6	7.6 7.9	--	3	--	--	--	1.2	8	4	--	--	--	--	--
12/19/73	5050 1215	48 F 122	10.8	7.2 7.2	--	--	--	--	--	--	--	0.001	--	--	--	--	--
01/10/74	5001 0920	5 C 111	10.8	8.0	--	3	--	--	--	1.5	8	4	--	--	--	--	--
01/16/74	5050 1040	48 F 105	11.3	7.2 7.2	--	--	--	--	--	--	--	0.001	--	--	--	--	--
02/07/74	5001 0725	7 C 123	10.8	7.3	--	3	--	--	--	1.1	8	4	--	--	--	--	--
02/20/74	5050 0900	48 F 119	11.4	7.3	--	--	--	--	--	--	--	0.001	--	--	--	--	--
03/26/74	5001 0705	12 C 103	9.3	7.4	--	3	--	--	--	1.2	8	7	--	--	--	--	--
04/10/74	5001 0650	12 C 64	8.7	7.4	--	3	--	--	--	1.0	8	5	--	--	--	--	--
04/25/74	5001 0655	12 C 118	9.2	7.5	--	3	--	--	--	74	5	8	--	--	--	--	--
05/09/74	5001 0650	17 C 137	7.0	7.1	--	3	--	--	--	1.2	8	3	--	--	--	--	--
05/23/74	5001 0605	15 C 140	7.9	6.4	--	3	--	--	--	38	5	7	--	--	--	--	--
06/06/74	5001 0555	19 C 132	7.4	7.0	--	3	--	--	--	1.0	8	6	--	--	--	--	--
06/25/74	5001 0855	19 C 130	8.6	7.1	--	3	--	--	--	26	5	8	--	--	--	--	--
07/09/74	5001 0745	19 C 124	7.7	7.7	--	3	--	--	--	2.0	8	5	--	--	--	--	--
07/23/74	5001 0810	22 C 120	7.9	7.6	--	3	--	--	--	18	5	4	--	--	--	--	--
08/07/74	5001 0755	22 C 130	7.7	7.3	--	3	--	--	--	1.1	8	4	--	--	--	--	--
08/23/74	5001 0945	21.0C 139	8.3	7.1	--	3	--	--	--	26	5	0	--	--	--	--	--
09/05/74	5001 0740	20 C 159	8.2	7.4	--	3	--	--	--	1.0	8	6	--	--	--	--	--
09/18/74	5050 1315	68 F 146	8.5	7.2	--	--	--	--	--	--	--	0.000	--	--	--	--	--
09/19/74	5001 0740	19 C 140	8.3	7.5	--	3	--	--	--	21	5	4	--	--	--	--	--
G7 L 856.3 000.5 LAKE TAMOE AT TAMOE KEYS PIER (S-1)																	
05/08/74	5050 1005	12.3C 94	9.1	7.4	0.00 A	1	--	--	--	--	--	--	--	--	--	--	--
08/14/74	5050 1015	18.0C 95	7.6	7.9	0.02 A	--	--	--	--	--	--	--	--	--	--	--	--
G7 L 856.3 002.3 LAKE TAMOE AT CAMP RICHARDSON - EDWARDS PIER (S-64)																	
05/08/74	5050 0920	10.1C 71	9.2	7.5	0.00 A	--	--	--	--	--	--	--	--	--	--	--	--
08/14/74	5050 0940	18.2C 94	7.2	7.9	0.00 A	--	--	--	--	--	--	--	--	--	--	--	--
G7 L 857.0 958.0 2 LAKE TAMOE AT SURF AND SANDS PIER (S-10)																	
05/08/74	5050 1050	12.6C 85	9.1	7.5	0.00 A	--	--	--	--	--	--	--	--	--	--	--	--
08/14/74	5050 1105	18.0C 66	7.2	7.9	0.02 A	--	--	--	--	--	--	--	--	--	--	--	--



TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MBAS	DEPTH TURB	T-L CHLOR	SET 5		COD SUS S	V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T OODR	BROMIDE SULFITE	T SULF O SULF	CC EXT CA EXT
								O-B ML/L	ML/L								
07 L 057.6 957.1 LAKE TAMOE AT STATELINE - LAKESIDE MARINA PIER(S-13)																	
05/08/74 1200	5050 5050	14.3C 88	9.1	7.3	0.01 A		--	--	--	--	--	--	--	--	--	--	--
08/14/74 1215	5050 5050	19.1C 96	7.4	7.9	0.04 A		--	--	--	--	--	--	--	--	--	--	--
07 L 900.0 000.0 LAKE TAMOE - SOUTH CENTER (C-1)																	
05/08/74 0930	5050 5050	9.1C 91	9.5	7.5	0.00 A	1	--	--	--	--	--	--	--	--	--	--	--
08/14/74 0915	5050 5050	18.8C 92	7.5	7.9	0.00 A		--	--	--	--	--	--	--	--	--	--	--
07 L 900.4 956.9 LAKE TAMOE AT ZEPHYR COVE PIER (S-8)																	
05/08/74 1130	5050 5050	11.4C 89	9.0	7.5	0.00 A		--	--	--	--	--	--	--	--	--	--	--
08/14/74 1115	5050 5050	19.1C 90	7.2	7.8	0.01 A		--	--	--	--	--	--	--	--	--	--	--
07 L 900.9 006.8 2 LAKE TAMOE AT RUBICON BAY PIER (S-2)																	
05/08/74 0835	5050 5050	8.0C 91	9.5	7.5	0.00 A	1	--	--	--	--	--	--	--	--	--	--	--
08/14/74 0855	5050 5050	18.3C 93	7.4	8.0	0.01 A		--	--	--	--	--	--	--	--	--	--	--
07 L 902.3 007.2 LAKE TAMOE AT WEEKS BAY RESORT PIER (S-12)																	
05/08/74 0725	5050 5050	7.6C			0.01 A		--	--	--	--	--	--	--	--	--	--	--
08/14/74 0810	5050 5050	17.8C 85	7.1	7.8	0.00 A		--	--	--	--	--	--	--	--	--	--	--
07 L 905.3 956.4 LAKE TAMOE AT GLENBROOK BAY PIER (S-3)																	
05/08/74 1050	5050 5050	9.9C 88	9.4	7.5	0.00 A		--	--	--	--	--	--	--	--	--	--	--
08/14/74 1035	5050 5050	18.8C 90	7.5	7.8	0.02 A		--	--	--	--	--	--	--	--	--	--	--
07 L 907.8 009.2 LAKE TAMOE AT WARD CREEK PIER (S-11)																	
05/08/74 0705	5050 5050	6.8C 90	9.7	7.4	0.00 A	1	--	--	--	--	--	--	--	--	--	--	--
08/14/74 0650	5050 5050	16.6C 85	7.8	8.0	0.00 A		--	--	--	--	--	--	--	--	--	--	--
07 L 908.7 000.3 LAKE TAMOE - NORTH CENTER (C-2)																	
05/08/74 0755	5050 5050	9.0C 98	9.6	7.5	0.00 A	2	--	--	--	--	--	--	--	--	--	--	--
08/14/74 0745	5050 5050	17.8C 91	7.5	7.9	0.00 A		--	--	--	--	--	--	--	--	--	--	--
07 L 910.8 007.1 2 LAKE TAMOE AT US COAST GUARD PIER (S-5)																	
05/08/74 0755	5050 5050	7.8C 89	9.6 8.18	7.5	0.01 A		--	--	--	--	--	--	--	--	--	--	--
08/14/74 0740	5050 5050	16.4C 85	7.8	8.1	0.02 A		--	--	--	--	--	--	--	--	--	--	--
07 L 913.5 004.9 LAKE TAMOE AT CARNELIAN BAY - SIERRA BOAT CO (S-14)																	
05/08/74 0835	5050 5050	9.0C 90	9.4	7.5	0.00 A	1	--	--	--	--	--	--	--	--	--	--	--
08/14/74 0815	5050 5050	17.6C 89	7.6	7.9	0.01 A		--	--	--	--	--	--	--	--	--	--	--
07 L 914.2 002.3 LAKE TAMOE AT KINGS BEACH PIER (S-7)																	
05/08/74 0905	5050 5050	8.4C 88	9.6	7.5	0.00 A	1	--	--	--	--	--	--	--	--	--	--	--
08/04/74 0900	5050 5050	17.6C 90	7.6	7.8	0.01 A		--	--	--	--	--	--	--	--	--	--	--
07 L 914.2 956.6 LAKE TAMOE AT KINGS CASTLE PIER (S-4)																	
05/08/74 1005	5050 5050	12.1C 90	9.1	7.5	0.00 A	1	--	--	--	--	--	--	--	--	--	--	--
08/14/74 0940	5050 5050	18.7C 90	7.2	8.0	0.00 A		--	--	--	--	--	--	--	--	--	--	--
07 3020.01 BURTON CREEK IN STAR HARBOR (T-8)																	
05/01/74 1020	5050 5050	3.6C 44	10.4	7.3	26 E 0.03 A		--	--	--	--	--	--	--	--	--	--	--
08/07/74 1030	5050 5050	17.1C 92	8.0	7.9	0.01 A		--	--	--	--	--	--	--	--	--	--	--
07 3050.01 WARD CREEK NEAR MOUTH (T-5)																	
05/01/74 0925	5050 5050	2.9C 44	10.4	7.3	140 E 0.00 A		--	--	--	--	--	--	--	--	--	--	--
08/07/74 0950	5050 5050	13.7C 56	8.3 4.22	7.9	8 E 0.01 A		--	--	--	--	--	--	--	--	--	--	--

TABLE D-5 (CONTINUED)  
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	SAMP LAB	TEMP EC	DO G.M.	F-PH L-PH	DISCH MBAS	DEPTH TURR	T+L CHLOR	0+G COLOR	SET 5 ML/L MG/L	800 SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOOR	BROMIDE SULFITE	T SULF D SULF	CC EXT CA EXT
G7 3160.01 MADDER CREEK NEAR MOUTH (T-10)																	
05/01/74 0850	5050 5050	3.0C 44	10.3 1.10	7.4	20 E 0.00 A		--	--	--	--	--	--	--	--	--	--	--
08/07/74 0915	5050 5050	11.3C 44	8.6 0.83	7.6	7 E 0.02 A		--	--	--	--	--	--	--	--	--	--	--
G7 3230.01 THIRD CREEK NEAR MOUTH (T-6)																	
05/01/74 1025	5050 5050	7.3C 65	9.5 2.38	7.3	12 E 0.00 A		--	--	--	--	--	--	--	--	--	--	--
08/07/74 1125	5050 5050	14.5C 64	8.2	7.7	8 E 0.00 A		--	--	--	--	--	--	--	--	--	--	--
G7 3253.01 INCLINE CREEK AT INCLINE VILLAGE (T-2)																	
05/01/74 0950	5050 5050	5.9C 65	9.7	7.3	18 E 0.01 A		--	--	--	--	--	--	--	--	--	--	--
08/07/74 1050	5050 5050	12.4C 61	8.4	7.7	10 E 0.00 A		--	--	--	--	--	--	--	--	--	--	--
G7 3300.01 GENERAL CREEK NEAR WEEKS HAY (T-3)																	
05/01/74 0820	5050 5050	1.9C 18	10.5	7.0	34 E 0.00 A		--	--	--	--	--	--	--	--	--	--	--
08/07/74 0835	5050 5050	11.9C 48	8.1	7.2	4 E 0.01 A		--	--	--	--	--	--	--	--	--	--	--
G7 3571.01 TAYLOR CREEK NEAR CAMP RICHARDSON (T-4)																	
05/01/74 0710	5050 5050	5.1C 26	9.5	7.2	150 E 0.00 A		--	--	--	--	--	--	--	--	--	--	--
08/07/74 0700	5050 5050	17.5C 24	7.1	7.1	12 E 0.01 A		--	--	--	--	--	--	--	--	--	--	--
G7 3679.90 EDGEWOOD CREEK AT MOUTH (T-7A)																	
05/01/74 0815	5050 5050	8.2C 110	9.1	7.3	4 E 0.01 A		--	--	--	--	--	--	--	--	--	--	--
08/07/74 0800	5050 5050	17.3C 120	5.6	6.8	2 E 0.03 A		--	--	--	--	--	--	--	--	--	--	--
G7 3680.00 EDGEWOOD CREEK AT HIGHWAY 50 (T-7)																	
05/01/74 0850	5050 5050	5.5C 112	9.7 1.10	7.3	0.01 A		--	--	--	--	--	--	--	--	--	--	--
08/07/74 0835	5050 5050	9.8C 109	8.8 0.7	7.5	4 E 0.00 A		--	--	--	--	--	--	--	--	--	--	--
G7 3705.01 UPPER TRUCKEE RIVER NEAR MOUTH (T-1)																	
05/01/74 0655	5050 5050	7.5C 22	9.9	6.8	75 E 0.02 A		--	--	--	--	--	--	--	--	--	--	--
08/07/74 0645	5050 5050	14.7C 58	7.5	7.3	20 E 0.00 A		--	--	--	--	--	--	--	--	--	--	--
G7 3810.00 TROUT CREEK AT SOUTH LAKE TAHOE (T-9)																	
05/01/74 0735	5050 5050	3.6C 45	9.9	6.8	50 E 0.00 A		--	--	--	--	--	--	--	--	--	--	--
08/07/74 0730	5050 5050	10.3C 45	8.7 1.50	7.5	15 E 0.02 A		--	--	--	--	--	--	--	--	--	--	--

TABLE D-6

## NUTRIENT ANALYSIS OF SURFACE WATER

Sampler and Lab Agency Codes

2163 - Department of Water Resources for SWRCB  
 5000 - U. S. Geological Survey  
 5001 - U. S. Bureau of Reclamation  
 5050 - Department of Water Resources

Abbreviations and Constituents

TIME - Pacific Standard Time on a 24-hour clock  
 G.H. - Instantaneous gage height in feet above an established datum  
 DISCH - Instantaneous discharge in cubic feet per second  
 TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)  
 DEPTH - Depth in feet at which sample was collected  
 PH - Measure of acidity (<7) or alkalinity (>7) of water  
 EC - Electrical conductance in micromhos at 25° Celsius  
 TURB - Jackson Turbidity Units measured with a Hellige Turbidimeter (E) or a Hack Nephelometer (A) with (F) for field determination  
 F-CO2 - Field determination of carbon dioxide in milligrams per liter  
 CAC03 P - Field Alkalinity (Phenol)  
 CAC03 T - Field Alkalinity (Total)  
 HC03 - Bicarbonate in milligrams per liter  
 C03 - Carbonate in milligrams per liter  
 NH3 - Ammonia  
 NO2 - Nitrite  
 NO3 - Nitrate  
 F ORG N - Dissolved organic nitrogen  
 U ORG N - Organic nitrogen  
 F (NH3 + U ORG N) - Ammonia and dissolved organic nitrogen  
 U ORG N) - Ammonia and organic nitrogen  
 DIS  
 A.H.P04 - Dissolved acid hydrolyzable phosphate  
 F H3P04 - Dissolved orthophosphate  
 U H3P04 - Total orthophosphate  
 F TOT P - Dissolved total phosphorus  
 U TOT P - Total phosphorus

TABLE D-6 (CONTINUED)  
NUTRIENT ANALYSIS OF SURFACE

NUTRIENT ANALYSIS OF SURFACE WATER																
DATE TIME	SAMP LAB	G.H. DISCH.	TEMP	FIELD LABORATORY		FIELD LAB					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER					
				PH	EC	TURB F-CO2	CAC03 CAC03	P T	HC03 C03	NH3	N02 N03	F OR N U OR N	F (NH3 + U OR N)	DIS A.H.P04	F H3P04 U H3P04	TOT P U TOT P
AO V 836.3 128.4 NATOMAS EAST MAIN DRAIN AT SACRAMENTO																
06/19/74 0645	5050 5050		65 F	7.2	287 295	25A				--	1.6	--	3.0	--	1.5 --	-- 2.0
AO V 836.4 131.4 NATOMAS MAIN DRAIN TO SACRAMENTO RIVER																
06/19/74 0720	5050 5050		64 F	7.4	511 536	17A				--	0.28	--	1.2	--	0.13 --	-- 0.19
AO V 847.4 135.8 R-D 1001 ORAINAGE TO NATOMAS CROSS CANAL																
06/19/74 0830	5050 5050		69 F	7.4	671 680	25A				--	0.45	--	1.1	--	0.14 --	-- 0.19
AO 2112.00 SACRAMENTO RIVER AT ELKHORN FERRY																
10/17/73 0715	5050 5050		60 F	7.5	105 114	5A				--	0.07	--	0.1	--	0.02 --	-- 0.06
11/14/73 0800	5050 5050		54 F	7.2	92 86	52A				--	0.10	--	0.4	--	0.03 --	-- 0.20
12/19/73 0900	5050 5050		48 F	7.2	117 117	18A				--	0.11	--	0.1	--	0.02 --	-- 0.07
01/16/74 0740	5050 5050		48 F	7.2	100 102	24A				--	0.14	--	0.2	--	0.02 --	-- 0.06
02/20/74 1230	5050 5050		48 F	7.2	112 116	38A				--	0.17	--	0.2	--	0.01 --	-- 0.07
03/20/74 0800	5050 5050		53 F	7.3	103 107	27A				--	0.08	--	0.2	--	0.02 --	-- 0.06
04/17/74 0800	5050 5050		56 F	7.3	106 106	22A				--	0.08	--	0.2	--	0.02 --	-- 0.06
05/15/74 0800	5050 5050		60 F	7.3	114 118	20A				--	0.18	--	0.2	--	0.02 --	-- 0.05
06/19/74 0750	5050 5050		65 F	7.3	113 127	15A				--	0.09	--	0.1	--	0.02 --	-- 0.05
07/17/74 0740	5050 5050		69 F	7.4	126 122	11A				--	0.06	--	0.2	--	0.02 --	-- 0.05
08/21/74 0700	5050 5050		67 F	7.3	114 75	11A				--	0.04	--	0.2	--	0.01 --	-- 0.02
09/18/74 1005	5050 5050		65 F	7.4	151 138	11A				--	0.05	--	0.3	--	0.02 --	-- 0.06
AO 2170.00 SACRAMENTO RIVER AT FREMONT WEIR, WEST END																
10/17/73 1000	5050 5050	16.87	60 F	7.5 7.5	130 147	8A	72 0			-- --	0.08	--	0.2	--	0.02 --	-- 0.06
11/14/73 1100	5050 5050	33.03	55 F	7.2 7.7	105 105	150A	44 0			-- --	0.12	--	0.6	--	0.04 --	-- 0.26
12/19/73 1030	5050 5050	31.45	49 F	7.2 7.3	132 133	30A	64 0			-- --	0.15	--	0.2	--	0.02 --	-- 0.36
01/16/74 0830	5050 5050	34.87	48 F	7.2 7.3	139 137	50A	63 0			-- --	0.16	--	0.3	--	0.02 --	-- 0.11
02/20/74 1030	5050 5050	27.62	47.5F	7.3 7.3	137 136	60A	65 0			-- --	0.23	--	0.2	--	0.02 --	-- 0.10
03/20/74 1000	5050 5050	34.07	53 F	7.3 7.2	125 129	50A	58 0			-- --	0.10	--	0.2	--	0.02 --	-- 0.07
04/17/74 1010	5050 5050	34.27	56 F	7.4 7.3	130 134	40A	65 0			-- --	0.17	--	0.2	--	0.02 --	-- 0.11
05/15/74 1000	5050 5050	23.42	61 F	7.3 7.7	137 143	19A	68 0			-- --	0.19	--	0.3	--	0.02 --	-- 0.02
06/19/74 1100	5050 5050	19.08	65 F	7.4 7.8	136 139	32A	65 0			-- --	0.16	--	0.2	--	0.02 --	-- 0.08
07/17/74 1000	5050 5050	20.15	69 F	7.4 7.3	172 181	16A	79 0			-- --	0.13	--	0.2	--	0.02 --	-- 0.05
08/21/74 0950	5050 5050	20.67	66 F	7.5 7.6	176 192	21A	88 0			-- --	0.16	--	0.2	--	0.02 --	-- 0.04
09/18/74 1140	5050 5050		65 F	7.4 8.0	187 177		82 0			-- --	0.09	--	0.3	--	0.03 --	-- 0.07
AO 2230.02 SACRAMENTO RIVER ABOVE COLUSA BASIN DRAIN																
10/18/73 1225	5050 5050	18.35	16.0C	7.6	142	5AF				--	0.11	--	0.1	--	0.01 --	-- 0.04
11/27/73 1255	5050 5050	36.77	11.0C	7.3						--	0.10	--	0.1	--	0.02 --	-- 0.07
12/19/73 1300	5050 5050	33.97	9.5C	7.3						--	0.13	--	0.5	--	0.02 --	-- 0.10
01/22/74 1645	5050 5050	39.23	9.0C	7.4						--	0.21	--	0.4	--	0.03 --	-- 0.30
02/19/74 1020	5050 5050	30.03	9.0C	7.4	115	60AF				--	0.16	--	0.2	--	0.02 --	-- 0.15
03/21/74 1215	5050 5050	36.01	12.0C	7.6	112	38AF				--	0.10	--	0.1	--	0.02 --	-- 0.08
04/24/74 1225	5050 5050	28.09	14.5C	8.2	168	48A				--	0.24	--	0.4	--	0.08 --	-- 0.6

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	S.W. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER				
					TURB	CAC03 P	HC03 T	NH3	NO2	F ORG N	F (NH3)	DIS	F H3PO4	F TOT P
					EC	F-CO2	CAC03 T		NO3	U ORG N	U ORG N	A.M.P04	U H3PO4	U TOT P
A0 2230.02 SACRAMENTO RIVER ABOVE COLUSA BASIN DRAIN CONTINUED														
05/23/74	5050	23.88	17.0C	7.4	138	21AF			--	--	--	--	0.02	--
1340	5050								0.17	--	0.1	--	--	0.07
06/27/74	5050	20.58	20.0C	7.4	127	31AF			--	--	--	--	0.02	--
1600	5050								0.11	--	0.2	--	--	0.10
07/23/74	5050	21.08	23.0C	7.3	127	3AF			--	--	--	--	0.02	--
1535	5050								0.08	--	0.2	--	--	0.04
08/27/74	5050	22.78	20.0C	7.6	128	12AF			--	--	--	--	0.02	--
1210	5050								0.09	--	0.2	--	--	0.05
09/25/74	5050	21.03	19.5C	7.8	143	11AF			--	--	--	--	0.03	--
1200	5050								0.13	--	0.1	--	--	0.07
A0 2630.00 SACRAMENTO RIVER AT HAMILTON CITY														
05/06/74	5050	29.36	16.0C	7.3					--	--	--	--	0.01	--
0805	5050								0.29	--	0.1	--	--	0.04
A0 2785.00 SACRAMENTO RIVER AT REND BRIDGE														
11/12/73	5050	28.68	12.0C	8.3	95	90A			--	--	--	--	0.03	--
0815	5050								0.21	--	--	--	--	--
03/18/74	5050	27.25	9.0C	8.8	109	26AF			--	--	--	--	0.01	--
0850	5050								--	--	--	--	--	--
05/21/74	5050	21.63	10.5C	7.4		14A			--	--	--	--	0.01	--
0800	5050				104				0.07	--	0.1	--	--	0.03
A0 2905.00 YOLO BYPASS BELOW SACRAMENTO BYPASS														
06/19/74	5050	72	F	8.2	921	110A			--	--	--	--	0.08	--
1200	5050				912				0.89	--	1.4	--	--	0.21
A0 2925.00 SACRAMENTO SLOUGH AT SACRAMENTO RIVER														
10/18/73	5050	18.0C	7.8		605	16AF			--	--	--	--	0.12	--
1200	5050								0.11	--	0.5	--	--	0.20
05/23/74	5050	21.0C	7.6		357	25AF			--	--	--	--	0.07	--
1215	5050								0.09	--	0.6	--	--	0.10
08/27/74	5050	23.0C	7.4		403	20AF			--	--	--	--	0.07	--
1130	5050								0.10	--	0.4	--	--	0.13
09/25/74	5050	22.0C	7.6		512	35AF			--	--	--	--	0.10	--
1125	5050								0.20	--	0.4	--	--	0.25
A0 2926.00 R-D 1500 DRAINAGE TO SACRAMENTO SLOUGH														
06/27/74	5050	24.0C	7.5		564	23AF			--	--	--	--	0.08	--
1530	5050								0.14	--	0.7	--	--	0.14
07/23/74	5050	15.54	29.0C	7.5	560	32AF			--	--	--	--	0.08	--
1505	5050								0.08	--	0.3	--	--	0.14
A0 2933.00 R-D 108 DRAINAGE TO SACRAMENTO RIVER														
10/18/73	5050	19.0C	8.2		650	19AF			--	--	--	--	0.17	--
1330	5050	0							0.01	--	1.6	--	--	0.31
11/27/73	5050	13.0C	7.6						--	--	--	--	0.26	--
1405	5050								1.4	--	0.3	--	--	0.34
12/19/73	5050	10.0C	7.9						--	--	--	--	0.28	--
1340	5050								0.62	--	0.4	--	--	0.29
01/22/74	5050	10.0C	8.1		982	38AF			--	--	--	--	0.39	--
1520	5050	4.7							1.4	--	0.4	--	--	0.39
02/19/74	5050	12.5C	7.8		752	17AF			--	--	--	--	0.28	--
1130	5050								1.2	--	0.4	--	--	0.29
03/21/74	5050	14.0C	7.6		708	14AF			--	--	--	--	0.32	--
1310	5050								1.4	--	0.4	--	--	0.33
04/24/74	5050	15.0C	8.1			26A			--	--	--	--	0.22	--
1335	5050				872				0.68	--	0.6	--	--	0.80
05/23/74	5050	23.0C	7.4		441	21AF			--	--	--	--	0.12	--
1505	5050								0.12	--	0.6	--	--	0.17
06/27/74	5050	26.0C	7.5		530	17A			--	--	--	--	0.17	--
1340	5050	128							0.23	--	0.7	--	--	0.18
07/23/74	5050	28.0C	7.7		580	7AF			--	--	--	--	0.13	--
1400	5050								0.11	--	0.5	--	--	0.21
08/27/74	5050	23.0C	7.3		624	21AF			--	--	--	--	0.13	--
1320	5050								0.13	--	0.5	--	--	0.16
09/25/74	5050	24.0C	8.2		583	40AF			--	--	--	--	0.15	--
1305	5050								0.00	--	1.4	--	--	0.33
A0 2947.10 COLUSA BASIN DRAIN NEAR KNIGHTS LANDING														
10/18/73	5050	24.03	21.0C	8.1	698	14AF			--	--	--	--	0.06	--
1300	5050								0.02	--	0.6	--	--	0.16
11/27/73	5050	26.48	9.5C	7.8					--	--	--	--	0.16	--
1335	5050								0.29	--	0.8	--	--	0.30
12/19/73	5050	9.0C	7.9						--	--	--	--	0.12	--
1320	5050								0.32	--	0.6	--	--	0.15
01/22/74	5050	9.0C	8.4		506	95AF			--	--	--	--	0.12	--
1450	5050								0.38	--	0.4	--	--	0.25

TABLE D-6 (CONTINUED)																
NUTRIENT ANALYSIS OF SURFACE WATER																
DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	EC	FIELD					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER					
						TURB	CaCO3 P	CaCO3 T	HCO3	NH3	NO2	F ORG N	U ORG N	F (NH3 + DIS F H3PO4)	A-H2PO4	U H3PO4
CONTINUED																
A0 2947.10 COLUSA BASIN DRAIN NEAR KNIGHTS LANDING																
02/19/74	5050		11.0C	8.3	1290	32AF					--	--	--	--	0.06	--
1050	5050										--	0.22	--	0.7	--	0.19
03/21/74	5050		17.5C	8.2	1430	20AF					--	--	--	--	0.10	--
1250	5050										--	0.06	--	0.7	--	0.14
04/24/74	5050		15.5C	8.1		23A					--	--	--	--	0.07	--
1310	5050				825						--	0.06	--	0.6	--	0.38
05/23/74	5050	24.84	23.0C	7.8	601	17AF					--	--	--	--	0.07	--
1445	5050										--	0.13	--	0.8	--	0.12
06/27/74	5050	25.50	27.0C	8.0	700	46A					--	--	--	--	0.10	--
1310	5050										--	0.16	--	1.1	--	0.17
07/23/74	5050	24.70	30.0C	7.8	569	9AF					--	--	--	--	0.09	--
1335	5050										--	0.20	--	0.0	--	0.14
08/27/74	5050	24.51	23.5C	7.6	569	55AF					--	--	--	--	0.06	--
1300	5050										--	0.14	--	0.6	--	0.13
09/25/74	5050	23.46	22.5C	7.9	617	71AF					--	--	--	--	0.08	--
1235	5050										--	0.30	--	0.6	--	0.41
A0 2950.00 R-D 787 DRAINAGE TO COLUSA BASIN DRAIN																
10/18/73	5050	18.8	18.0C	8.0	833	46AF					--	--	--	--	0.10	--
1245	5050										--	0.02	--	1.9	--	0.38
11/27/73	5050	19.1	11.0C	7.3							--	--	--	--	0.05	--
1315	5050										--	0.22	--	0.5	--	0.12
04/24/74	5050	20.0	14.5C	8.1		22A					--	--	--	--	0.02	--
1250	5050				566						--	0.54	--	0.7	--	0.26
05/23/74	5050	20.1	23.0C	7.6	546	25AF					--	--	--	--	0.15	--
1415	5050										--	0.01	--	1.2	--	0.25
06/27/74	5050	21.20	27.0C	7.5	632	9A					--	--	--	--	0.12	--
5050											--	0.00	--	0.7	--	0.19
07/23/74	5050	20.00	29.0C	8.1	636	6AF					--	--	--	--	0.10	--
1305	5050										--	0.14	--	2.6	--	0.43
08/27/74	5050	20.4	22.5C	7.4	628	19AF					--	--	--	--	0.08	--
1230	5050										--	0.06	--	0.6	--	0.19
09/24/74	5050	19.4	21.0C	7.5	660	38AF					--	--	--	--	0.11	--
1220	5050										--	0.00	--	1.0	--	0.35
A0 2955.00 R-D 787 DRAINAGE TO SACRAMENTO RIVER																
10/18/73	5050	18.5	18.5C	7.9	983	18AF					--	--	--	--	0.30	--
1355	5050										--	0.02	--	0.6	--	0.37
11/27/73	5050	18.2	13.5C	7.8							--	--	--	--	0.22	--
1425	5050										--	0.95	--	0.5	--	0.42
12/19/73	5050	18.2	11.2C	7.6							--	--	--	--	0.23	--
1400	5050										--	0.68	--	0.4	--	0.44
01/22/74	5050	19.00	19.0C	7.9	693	30AF					--	--	--	--	0.24	--
1600	5050										--	1.4	--	0.4	--	0.24
02/19/74	5050	18.8	12.5C	7.9	674	17AF					--	--	--	--	0.15	--
1150	5050										--	1.0	--	0.4	--	0.21
03/21/74	5050		14.0C	7.4	363	26AF					--	--	--	--	0.11	--
1330	5050										--	0.21	--	0.2	--	0.11
04/24/74	5050	20.5	14.0C	7.4		30A					--	--	--	--	0.14	--
1400	5050				438						--	0.53	--	0.4	--	0.50
05/23/74	5050	20.0	24.0C	7.4	492	10AF					--	--	--	--	0.16	--
1530	5050										--	0.05	--	0.6	--	0.18
06/27/74	5050	19.40	25.0C	8.2	496	20A					--	--	--	--	0.17	--
1410	5050										--	0.18	--	0.6	--	0.22
07/23/74	5050	20.10	29.0C	7.3	421	17AF					--	--	--	--	0.13	--
1425	5050				494						--	0.18	--	1.0	--	0.20
08/27/74	5050	19.5	22.5C	7.4	518	32AF					--	--	--	--	0.13	--
1400	5050										--	0.05	--	0.5	--	0.22
09/25/74	5050	19.3	20.0C	7.8	940	32AF					--	--	--	--	0.16	--
1330	5050										--	0.02	--	1.0	--	0.35
A0 2965.00 R-D 70 DRAINAGE TO SACRAMENTO RIVER																
10/18/73	5050	32.6	19.0C	8.0	800	20AF					--	--	--	--	0.18	--
1100	5050										--	0.01	--	1.2	--	0.42
11/27/73	5050	34.2	12.0C	7.3							--	--	--	--	0.14	--
1200	5050										--	0.49	--	0.4	--	0.24
12/19/73	5050	33.8	10.5C	7.6							--	--	--	--	0.16	--
1215	5050										--	0.84	--	0.4	--	0.21
01/22/74	5050		9.5C	7.9	902	26AF					--	--	--	--	0.24	--
1315	5050										--	2.2	--	0.5	--	0.24
02/19/74	5050	33.8	11.5C	8.1	1120	17AF					--	--	--	--	0.16	--
0945	5050										--	1.4	--	0.6	--	0.28
03/21/74	5050	33.6	11.5C	8.0	1062	18AF					--	--	--	--	0.23	--
1140	5050										--	0.44	--	0.9	--	0.39
04/24/74	5050	34.2	14.5C	8.2		18A					--	--	--	--	0.04	--
1145	5050				1140						--	0.04	--	0.8	--	0.65

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER					F TOT P
					EC	TURB	CAC03 P	HC03	NH3	NO2	F ORG N	F (NH3	OIS	F H3PO4	
						F-C02	CAC03 T	C03		NO3	U ORG N	U ORG N	A.M.P04	U H3PO4	U TOT P
A0 2965.00 R-O 70 DRAINAGE TO SACRAMENTO RIVER CONTINUED															
05/23/74	5050	34.3	22.0C	7.7	771	22AF				--	--	--	--	0.14	--
1120	5050								--	0.20	--	0.9	--	--	0.19
06/27/74	5050	34.25	24.0C	7.7	631	7A				--	--	--	--	0.13	--
1130	5050								--	0.18	--	0.6	--	--	0.17
07/23/74	5050	34.10	27.0C	7.5	537	6AF				--	--	--	--	0.11	--
1205	5050								--	0.15	--	0.4	--	--	0.19
08/27/74	5050	33.6	22.0C	7.4	528	22AF				--	--	--	--	0.08	--
1030	5050								--	0.13	--	0.4	--	--	0.15
09/25/74	5050	34.0	21.5C	7.7	790	24AF				--	--	--	--	0.16	--
1040	5050								--	0.00	--	0.7	--	--	0.31
A0 2972.00 BUTTE SLOUGH NEAR MERIDIAN															
10/18/73	5050	39.64	19.0C	7.2	232	7AF				--	--	--	--	0.05	--
1030	5050								--	0.03	--	0.3	--	--	0.11
11/27/73	5050	52.08	10.0C	7.2						--	--	--	--	0.02	--
1130	5050								--	0.11	--	0.2	--	--	0.06
12/19/73	5050	47.40	9.0C	7.2						--	--	--	--	0.06	--
1130	5050								--	0.08	--	0.4	--	--	0.09
01/22/74	5050	58.22	9.0C	7.2						--	--	--	--	0.02	--
1240	5050								--	0.16	--	0.4	--	--	0.23
02/19/74	5050	46.26	10.0C	7.3	251	70AF				--	--	--	--	0.03	--
0915	5050								--	0.12	--	0.7	--	--	0.13
03/21/74	5050	50.59	13.5C	7.5	134	30AF				--	--	--	--	0.01	--
0955	5050								--	0.06	--	0.2	--	--	0.07
04/24/74	5050	46.10	14.0C	7.2		36A				--	--	--	--	0.04	--
1100	5050				209				--	0.32	--	0.4	--	--	0.25
05/23/74	5050	44.69	22.0C	8.3	234	14AF				--	--	--	--	0.05	--
1045	5050								--	0.06	--	0.7	--	--	0.10
06/27/74	5050	43.03	26.0C	7.5	297	10AF				--	--	--	--	0.05	--
1015	5050								--	0.06	--	0.5	--	--	0.08
07/23/74	5050	42.47	29.5C	7.8	283	14AF				--	--	--	--	0.04	--
1050	5050				296				--	0.07	--	0.4	--	--	0.07
08/27/74	5050	43.38	23.5C	7.3	296	12AF				--	--	--	--	0.04	--
1000	5050								--	0.04	--	0.4	--	--	0.06
A0 2976.00 COLUSA BASIN DRAIN AT HIGHWAY 20															
04/24/74	5050	38.85	13.5C	7.6		80A				--	--	--	--	0.10	--
0920	5050				522				--	0.54	--	0.8	--	--	1.0
A0 3520.50 COTTONWOOD CREEK AT COTTONWOOD															
04/18/74	5050		12.5C	7.6		25A				--	--	--	--	0.01	--
0825	5050				253				--	0.11	--	0.1	--	--	0.17
A0 4321.01 DEER CREEK AT HIGHWAY 99E															
04/22/74	5050		15.5C	7.6		1A				--	--	--	--	0.01	--
1315	5050				79				--	0.03	--	0.2	--	--	0.04
A0 4420.50 MILL CREEK NEAR MOUTH NEAR LOS MOLINOS															
05/06/74	5050		15.0C	7.4		5A				--	--	--	--	0.02	--
1200	5050				89				--	0.01	--	0.1	--	--	0.03
A0 5103.00 FEATHER RIVER AT NICOLAUS															
10/17/73	5050	24.12	68 F	7.2	75	3A				--	--	--	--	0.01	--
0750	5050	5340			74				--	0.02	--	0.1	--	--	0.02
11/14/73	5050	34.85	53 F	7.1	98	16A				--	--	--	--	0.05	--
0900	5050	25800							--	0.05	--	0.3	--	--	0.06
12/19/73	5050		48 F	7.2	86	9A				--	--	--	--	0.01	--
0815	5050	14000			82				--	0.11	--	0.1	--	--	0.03
01/16/74	5050	39.67	48 F	7.1	80	20A				--	--	--	--	0.02	--
0700	5050	50400			78				--	0.15	--	0.3	--	--	0.04
02/20/74	5050	29.65	47.5F	7.2	85	19A				--	--	--	--	0.00	--
1200	5050	15820			81				--	0.08	--	0.2	--	--	0.04
03/20/74	5050	35.66	52 F	7.2	74	10A				--	--	--	--	0.01	--
0845	5050	20700			76				--	0.03	--	0.2	--	--	0.01
04/17/74	5050	35.33	56 F	7.2	73	11A				--	--	--	--	0.01	--
0850	5050	20500			73				--	0.06	--	0.1	--	--	0.02
05/15/74	5050	27.98	59 F	7.2	73	9A				--	--	--	--	0.00	--
0845	5050	12100			74				--	0.03	--	0.1	--	--	0.02
06/19/74	5050	25.41	65 F	7.2	65	11A				--	--	--	--	0.01	--
0900	5050	7450			67				--	0.04	--	0.1	--	--	0.03
07/17/74	5050	26.68	68 F	7.3	75	6A				--	--	--	--	0.01	--
0830	5050	4960			73				--	0.01	--	0.1	--	--	0.03
08/21/74	5050	26.80	66 F	7.2	73	6A				--	--	--	--	0.00	--
0745	5050	10440			125				--	0.04	--	0.1	--	--	0.00
09/18/74	5050	25.90	63 F	7.2	72	4A				--	--	--	--	0.00	--
0900	5050	8750			79				--	0.02	--	0.1	--	--	0.02

TABLE D-6 (CONTINUED)															
NUTRIENT ANALYSIS OF SURFACE WATER															
DATE	SAMP	G.M.	TEMP	FIELD	FIELD	LAB	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER								
TIME	LAB	DISCH.	DEPTH	PH	EC	TURB	F-CO2	CAC03	P	MC03	NH3	NO2	F ORG N	F (NH3 +	DIS
												NO3	U ORG N	U ORG N)	A.H.PD4
															F H3PO4
															U H3PO4
															F TOT P
															U TOT P
A0 7140.10 AMERICAN RIVER AT SACRAMENTO WATER PLANT															
08/19/74	2163		63	F	7.1	46		1A				0.01	--	--	--
0945	5050				7.2	46					--	0.03	--	0.2	--
A0 7180.00 AMERICAN RIVER BELOW NIMBUS DAM															
08/19/74	2163		63	F	7.0	53		1A				0.01	--	--	--
0845	5050				7.0	49					--	0.02	--	0.2	--
A1 1020.00 PIT RIVER NEAR MONTGOMERY CREEK															
05/08/74	5050		13.0C		8.1							--	--	--	0.03
1050	5050										--	0.03	--	0.1	--
A1 1680.00 PIT RIVER NEAR CANBY															
05/08/74	5050	3.68	18.5C		7.6							--	--	--	0.06
1335	5050										--	0.19	--	0.6	--
A2 1010.00 SACRAMENTO RIVER AT KESWICK															
10/11/73	5050		10.5C		7.2	109		2AF				--	--	--	0.01
1005	5050	7500									--	0.04	--	0.1	--
11/12/73	5050		12.0C		7.0	105						--	--	--	0.01
1100	5050	20000									--	0.18	--	0.1	--
12/06/73	5050		10.0C		7.2	98						--	--	--	0.01
1100	5050	39000									--	0.06	--	0.2	--
01/04/74	5050		8.0C		8.0	103		5AF				--	--	--	0.00
1105	5050	21000									--	0.09	--	0.0	--
02/14/74	5050		7.0C		7.1	79		64AF				--	--	--	0.00
1015	5050	17500									--	0.08	--	0.9	--
03/18/74	5050		8.0C		7.1	93		24AF				--	--	--	0.01
1200	5050	30000									--	0.09	--	0.1	--
04/18/74	5050		8.0C		7.1	94		21A				--	--	--	0.01
1025	5050	25000									--	0.12	--	0.1	--
05/21/74	5050		10.0C		7.1	88		16AF				--	--	--	0.00
1300	5050	12000									--	0.05	--	0.0	--
06/24/74	5050		10.0C		7.1	106		13AF				--	--	--	0.01
1020	5050	12500									--	0.04	--	0.1	--
07/16/74	5050		10.0C		7.2	90		10AF				--	--	--	0.00
1150	5050	12000									--	0.06	--	0.0	--
08/21/74	5050		10.0C		7.1	92		9AF				--	--	--	0.01
0845	5050	13500									--	0.08	--	0.1	--
09/23/74	5050		11.0C		7.2	90		6AF				--	--	--	0.01
1120	5050	8000									--	0.04	--	0.1	--
A3 1110.00 STONY CREEK BELOW BLACK BUTTE DAM															
03/19/74	5050	1.79	14.5C		7.9	286		62AF				--	--	--	0.02
1240	5050										--	--	--	--	--
05/20/74	5050	4.22	16.0C		8.1			13A				--	--	--	0.02
1125	5050					261					--	0.00	--	0.1	--
A3 1250.00 STONY CREEK NEAR FRUTO															
10/10/73	5050		13.0C		8.0	448						--	--	--	0.00
0910	5050										--	0.07	--	--	--
11/19/73	5050		7.0C		7.6	209		35A				--	--	--	0.02
1040	5050										--	0.11	--	--	--
04/22/74	5050		15.5C		8.0			32A				--	--	--	0.01
1110	5050					285					--	0.02	--	0.1	--
A3 1302.00 GRINDSTONE CREEK NEAR ELK CREEK															
11/19/73	5050		6.0C		7.4	174		29A				--	--	--	0.02
1015	5050										--	0.06	--	--	--
03/19/74	5050		10.0C		7.9	216		114AF				--	--	--	0.01
1145	5050	150 E									--	0.03	--	--	--
05/20/74	5050		14.0C		8.0			7A				--	--	--	0.01
1030	5050	100 E				259					--	0.01	--	--	--
A3 2120.00 THOMES CREEK AT PASKENTA															
11/19/73	5050		5.17		5.0C	7.5		128		31A		--	--	--	0.02
0925	5050										--	0.07	--	--	--
08/20/74	5050		20.5C		8.2	354		1AF				--	--	--	0.00
0900	5050										--	0.05	--	--	--
A3 6130.00 CLEAR CREEK NEAR IGO															
04/18/74	5050	2.80	10.0C		7.3			15A				--	--	--	0.01
0930	5050					71					--	0.02	--	0.0	--
A4 1110.00 BUTTE CREEK NEAR CHICO															
05/06/74	5050		2.39		12.0C	7.4						--	--	--	0.00
0950	5050										--	0.01	--	0.0	--



TABLE D-6 (CONTINUED)

NUTRIENT ANALYSIS OF SURFACE WATER																
DATE TIME	SAMP LAB	O.M. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	NUTRIENT ANALYSIS OF SURFACE WATER					NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER					F TOT P U TOT P	
					TURB	CAC03	P	MC03	NH3	NO2	F ORB N	F (NH3 + U ORB N U ORB N)	DIS A.M.P04	F H3P04 U H3P04		
A4 2110.00 810 CHICO CREEK NEAR CHICO																
05/06/74	5050	2.31	14.5C	7.6					--	0.02	--	0.0	--	0.01	--	
0850	5050								--				--	--	0.02	
A4 8110.00 COW CREEK NEAR MILLVILLE																
05/21/74	5050	3.32	17.0C	7.4		2A			--	--	--	0.1	--	0.01	--	
1410	5050				103				--	0.02			--	--	0.02	
A5 L 010.7 105.1 LAKE ALMANOR AT INTAKE TOWER NEAR OAM																
10/16/73	5050					1A		60		--	--	--		0.00	--	
1300	5050	COM	7.3	99				0	0.00	0.00	0.2	0.2	--	--	0.00	
A5 L 014.3 106.5 LAKE ALMANOR, EAST ARM, CENTER																
10/16/73	5050	58.7F	7.7	97	1A			60		--	--	--		0.00	--	
1420	5050	2	7.4	99				0	0.00	0.00	0.2	0.2	--	--	0.00	
10/16/73	5050	57.6F	7.4		1A			61		--	--	--		0.00	--	
1430	5050	20	7.2	100				0	0.00	0.00	0.2	0.2	--	--	0.01	
10/16/73	5050	57.3F	7.3	97	1A			62		--	--	--		0.00	--	
1440	5050	40	7.3	100				0	0.00	0.00	0.2	0.2	--	--	0.00	
A5 L 015.5 111.1 LAKE ALMANOR, WEST ARM, CENTER																
10/16/73	5050	56.4F	7.8	95	1A			61		--	--	--		0.00	--	
1000	5050	2	7.4	98				0	0.00	0.00	0.2	0.2	--	--	0.01	
10/16/73	5050	56.3F	7.7		1A			61		--	--	--		0.00	--	
1030	5050	15	7.3	99				0	0.00	0.00	0.2	0.2	--	--	0.01	
10/16/73	5050	55.7F	7.6	96	1A			60		--	--	--		0.00	--	
1050	5050	2A	7.4	99				0	0.01	0.00	0.3	0.31	--	--	0.01	
A5 L 017.6 112.0 LAKE ALMANOR NEAR MUD CREEK MOUTH																
10/16/73	5050	55.9F	7.7	94	1A			60		--	--	--		0.00	--	
0910	5050	5	7.5					0	0.00	0.00	0.3	0.3	--	--	0.01	
A6 1265.00 SQUIRREL CREEK NEAR PENN VALLEY																
12/05/73	5050	48 F	7.2	132	3A			67		--	--	--		0.02	--	
1300	5050		7.6	134				0	--	0.56	--	0.3	--	--	0.03	
03/04/74	5050	48 F	7.1	118	11A			56		--	--	--		0.01	--	
1315	5050		7.6	110				0	--	0.40	--	0.1	--	--	0.01	
06/07/74	5050	6.02	68 F	7.5	144	6A		78		--	--	--		0.02	--	
1230	5050		8.2	151				0	--	0.42	--	0.2	--	--	0.03	
09/03/74	5050	6.06	67 F	7.4	89	2A		44		--	--	--		0.04	--	
1330	5050		7.8	91				0	--	0.22	--	0.2	--	--	0.06	
A8 L 902.7 254.7 1 CLEAR LAKE AT LAKEPORT																
03/07/74	5050	8.5C	7.4	201	21AF					--	--	--		0.05	--	
0800	5050									--	--	--		--	--	
04/04/74	5050	11.0C	7.5		21A			109		--	--	--		0.04	--	
0650	5050	8.0	8.0	202				0	--	0.38	--	0.3	--	--	0.09	
A8 1250.00 BEAR CREEK NEAR RUNSEY																
11/19/73	5050	12.5C	8.2	388	160A					--	--	--		0.02	--	
1430	5050									0.40	--	--	--	--	--	
12/13/73	5050	2.85	10.0C	8.3	1700	30A				--	--	--		0.04	--	
1310	5050									1.2	--	--	--	--	--	
04/04/74	5050	2.56	11.0C	8.2	4A			441		--	--	--		0.02	--	
0935	5050		8.3	979				0	--	0.41	--	0.3	--	--	0.08	
09/06/74	5050	1.11	27.5C	8.4	3270	0A		710		--	--	--		0.00	--	
1345	5050		8.6	3310				63	--	1.1	--	--	--	--	--	
A8 1350.00 CACHE CREEK NEAR LOWER LAKE																
10/04/73	5050	17.0C	7.6	288	6AF					--	--	--		0.01	--	
0910	5050									0.01	--	1.0	--	--	0.05	
12/13/73	5050	3.70	9.0C	7.4	242					--	--	--		0.01	--	
1050	5050									0.15	--	0.6	--	--	0.06	
01/24/74	5050	6.75	8.0C	7.3	272	10AF				--	--	--		0.01	--	
0940	5050									0.28	--	0.2	--	--	0.04	
02/07/74	5050	5.01	7.5C	7.3	270	8AF				--	--	--		0.01	--	
1000	5050									0.30	--	0.6	--	--	0.05	
04/04/74	5050	11.0C	7.4		10A			132		--	--	--		0.01	--	
0750	5050		8.0	240				0	--	0.26	--	0.6	--	--	0.16	
05/16/74	5050	3.37	17.0C	7.8	245	11AF				--	--	--		0.00	--	
1200	5050									0.02	--	1.1	--	--	0.03	
04/13/74	5050	3.86	24.0C	7.4	234	15AF				--	--	--		0.02	--	
0850	5050									0.04	--	1.1	--	--	0.07	
07/11/74	5050	3.22	21.5C	7.4	243	8AF				--	--	--		0.02	--	
1130	5050									0.11	--	1.6	--	--	0.10	
08/08/74	5050	3.65	27.0C	8.0	228	9AF				--	--	--		0.02	--	
0930	5050									0.01	--	0.9	--	--	0.09	
09/06/74	5050	2.81	25.0C	7.6	249	5AF				--	--	--		0.00	--	
1205	5050	275								0.00	--	0.9	--	--	0.09	



TABLE D-6 (CONTINUED)

DATE TIME		SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	EC	NUTRIENT ANALYSIS OF SURFACE					WATER		CONSTITUENTS IN MILLIGRAMS PER LITER					F TOT P	
							TURB	CAC03 P	HC03 T	NH3	N02	N03	F ORG N	F (NH3 + U ORG N)	O15	F H3PO4	F TOT P	U TOT P		
B2 0190.20 JACKSON CREEK ABOVE CITY OF JACKSON STP																				
10/25/73	2163			47	F	7.3	160				0.01	0.3				0.01	--			
0845	5050					6.3				0.00	0.02	--	--	--	--	--	--	0.02		
11/28/73	2163			44	F	7.3	190				0.00	0.00	0.2	--	--		0.02	--		
1030	5050	10.9				7.9					0.46	--	--	--	--	--	--	0.02		
06/12/74	2163			67	F	7.6	156				--	0.0	--	--	--		0.01	--		
0930	5050	6.5				7.9				0.01	0.01	--	--	--	--	--	--	0.02		
B2 0191.01 JACKSON CREEK ABOVE SOUTH FORK JACKSON CREEK																				
06/12/74	2163			63	F	7.3	190				--	0.0	--	--	--		0.00	--		
0850	5050	0.8				7.7				0.00	0.07	--	--	--	--	--	--	0.02		
B2 0192.01 JACKSON CREEK NEAR AMADOR COUNTY HOSPITAL																				
06/12/74	2163			65	F	7.1	183				--	0.0	--	--	--		0.01	--		
0720	5050	0.6				7.6			02 .	001 .	0	--	--	--	--	--	--	0.02		
B2 0193.01 JACKSON CREEK BELOW NEW YORK GULCH																				
06/12/74	2163			64	F	7.3	163				--	0.0	--	--	--		0.01	--		
0800	5050	1.0				7.4				0.02	0.02	--	--	--	--	--	--	0.01		
B9 D 747.2 118.4 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE																				
10/18/73	5050			18	C		555	16AF			--	0.38	0.8			0.10	--			
0725	5001									0.42	1.12	0.74	1.16	--	--	--	--	0.21		
10/26/73	5050			15.5C			450	11AF			--	0.39	0.8			0.11	--	--		
0905	5001									0.41	0.88	0.67	1.08	--	--	--	--	0.24		
11/15/73	5050			14.5C			636	13AF			--	0.50	0.7			0.09	--	--		
1320	5001									0.20	1.30	0.68	0.88	--	--	--	--	0.18		
12/13/73	5050			10.5C			495				--	0.32	0.5			0.08	--	--		
1345	5001									0.18	0.79	0.52	0.70	--	--	--	--	0.16		
03/25/74	5001			14	C	7.6	575	17AF	96		--	0.25	0.3			0.09	--	--		
1110	5001								0	0.05	0.87	0.47	0.52	--	--	--	--	0.13		
04/09/74	5001			14	C	7.6	340	23AF	76		--	0.26	0.3			0.08	--	--		
1045	5001								0	0.04	0.59	0.44	0.48	--	--	--	--	0.16		
04/24/74	5001			15	C	7.4	560	17AF	94		--	0.19	0.2			0.07	--	--		
0945	5001								0	0.01	0.66	0.43	0.44	--	--	--	--	0.12		
05/08/74	5001			20	C	7.8	510	25AF	88		--	0.27	0.3			0.07	--	--		
0950	5001								0	0.03	0.58	0.57	0.60	--	--	--	--	0.17		
05/22/74	5001			17	C	7.2	375	19AF	68		--	0.39	0.4			0.05	--	--		
0855	5001								0	0.01	0.44	0.65	0.66	--	--	--	--	0.12		
06/05/74	5001			20	C	7.7	260	23AF	54		--	--	0.0			0.04	--	--		
0825	5001								0	0.00	0.19	--	--	--	--	--	--	0.10		
06/24/74	5001			23	C	7.8	710	28AF	130		--	0.29	0.3			0.06	--	--		
1210	5001								0	0.01	0.88	0.75	0.76	--	--	--	--	0.24		
07/08/74	5001			22	C	8.7	840	32AF	146		--	0.26	0.3			0.07	--	--		
1140	5001								3	0.04	0.73	0.94	0.98	--	--	--	--	0.23		
07/22/74	5001			25	C	8.4	840	33AF	144		--	0.27	0.3			0.07	--	--		
1225	5001								1	0.03	0.69	2.07	2.10	--	--	--	--	0.28		
08/06/74	5001			26	C	8.0	790	32AF	146		--	0.73	0.8			0.10	--	--		
1055	5001								0	0.07	0.70	1.45	1.52	--	--	--	--	0.24		
08/22/74	5001			24.0C		8.0	711	30AF	124		--	0.53	0.6			0.10	--	--		
1250	5001								0	0.07	0.97	1.17	1.24	--	--	--	--	0.27		
09/04/74	5001			23	C	7.7	580	18AF	118		--	0.66	0.7			0.07	--	--		
1040	5001								0	0.04	0.94	1.06	1.10	--	--	--	--	0.19		
09/18/74	5001			22	C	7.5	550	18AF	120		--	0.57	0.6			0.07	--	--		
1000	5001								0	0.03	0.81	1.05	1.08	--	--	--	--	0.19		
B9 D 748.0 125.2 SUGAR CUT AT MOUTH																				
10/18/73	5050			18	C		580	9AF			--	0.33	0.70			0.19	--	--		
0735	5001									0.37	1.00	0.79	1.16	--	--	--	--	0.32		
10/26/73	5050			16	C		530	10AF			--	0.40	0.80			0.11	--	--		
0825	5001									0.40	0.96	0.64	1.04	--	--	--	--	0.20		
11/15/73	5050			14	C		662	14AF			--	0.37	0.60			0.13	--	--		
1155	5001									0.23	1.24	0.55	0.78	--	--	--	--	0.22		
12/13/73	5050			10	C		528				--	0.33	0.50			0.09	--	--		
1230	5001									0.17	0.83	0.49	0.66	--	--	--	--	0.14		
B9 D 748.3 126.9 OLD RIVER AT TRACY ROAD BRIDGE																				
10/15/73	5001			19	C	7.5	595	16AF	126		--	0.69	1.10			0.14	--	--		
1335	5001					7.9	584		0	0.41	1.10	0.99	1.40	--	--	--	--	0.25		
12/11/73	5001			9	C	7.4	690	14AF	111		--	0.38	0.70			0.16	--	--		
1345	5001					7.7	655		0	0.32	0.81	0.52	0.84	--	--	--	--	0.25		
01/09/74	5001			7	C	7.2	378	24AF	77		--	0.53	0.80			0.16	--	--		
1320	5001					7.6	385		0	0.27	0.56	0.65	0.92	--	--	--	--	0.23		
02/06/74	5001			9	C	7.4	470	17AF	25		--	0.04	0.10			0.08	--	--		
1200	5001					9.7	433		24	0.06	0.51	0.12	0.18	--	--	--	--	0.14		
03/26/74	5001			15	C	7.6	670	17AF	104		--	0.33	0.4			0.10	--	--		
1130	5001								0	0.07	0.89	0.55	0.62	--	--	--	--	0.15		
04/10/74	5001			15	C	7.7	467	19AF	92		--	0.41	0.6			0.14	--	--		
1120	5001								0	0.19	0.67	0.61	0.80	--	--	--	--	0.25		



TABLE D-6 (CONTINUED)

DATE TIME		SAMP LAB	O.M. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	EC	NUTRIENT ANALYSIS OF SURFACE WATER				NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER				F TOT P U TOT P		
							TURB F-CO2	CAC03 CAC03	P T	HC03 CO3	NH3	NO2 NO3	F ORG N U ORG N	F (NH3 + U ORG N)			DIS A.H.P04
89 D 749.8 133.2 WEST CANAL AT MOUTH OF INTAKE TO CLIFTON CT FOREBAY CONTINUED																	
07/09/74 1225	5001 5001		22 C 3	8.1	153	23AF			62 0	0.09	-- 0.11	0.41 0.51	0.5 0.60	--	0.11 --	-- 0.12	
07/23/74 1215	5001 5001		25 C 3	7.6	190	29AF			60 0	0.06	-- 0.22	0.54 0.94	0.6 1.00	--	0.07 --	-- 0.12	
08/07/74 1220	5001 5001		26 C 3	7.5	270	24AF			68 0	0.05	-- 0.21	0.75 0.87	0.8 0.92	--	0.07 --	-- 0.12	
08/23/74 1355	5001 5001		25.0C 3	7.6	235	25AF			64 0	0.04	-- 0.10	0.06 0.28	0.1 0.32	--	0.05 --	-- 0.17	
09/05/74 1140	5001 5001		23 C 3	7.7	243	18AF			66 0	0.03	-- 0.19	0.47 0.63	0.5 0.66	--	0.04 --	-- 0.12	
09/19/74 1115	5001 5001		22 C 3	7.5	225	22AF			76 0	0.05	-- 0.07	0.55 0.71	0.6 0.76	--	0.05 --	-- 0.09	
89 D 751.9 119.3 SAN JOAQUIN RIVER AT BRANDT BRIDGE																	
10/18/73 0645	5050 5001		18.5C 3		550	24AF				0.44	-- 1.36	0.26 0.58	0.4 1.02	--	0.11 --	-- 0.22	
10/26/73 0830	5050 5001		16.0C 3		530	10AF				0.42	-- 1.08	0.38 0.56	0.8 0.98	--	0.11 --	-- 0.23	
11/15/73 1240	5050 5001		14.5C 3		589	10AF				0.16	-- 1.30	0.34 0.48	0.5 0.64	--	0.10 --	-- 0.18	
12/13/73 1415	5050 5001		10.3C		507					0.17	-- 0.83	0.33 0.47	0.5 0.64	--	0.09 --	-- 0.15	
03/25/74 1020	5001 5001		14 C 1	7.5	570	16AF			96 0	0.03	-- 0.67	0.27 0.47	0.3 0.50	--	0.09 --	-- 0.14	
04/09/74 1005	5001 5001		15 C 1	7.6	322	22AF			74 0	0.05	-- 0.59	0.35 0.49	0.4 0.54	--	0.08 --	-- 0.15	
04/24/74 0905	5001 5001		15 C 3	7.7	490	13AF			84 0	0.01	-- 0.56	0.19 0.39	0.2 0.40	--	0.06 --	-- 0.10	
05/08/74 0915	5001 5001		19 C 3	7.9	410	18AF			72 0	0.03	-- 0.41	0.27 0.51	0.3 0.54	--	0.06 --	-- 0.13	
05/22/74 0810	5001 5001		17 C 3	7.2	355	16AF			68 0	0.01	-- 0.39	0.19 0.47	0.2 0.48	--	0.05 --	-- 0.12	
06/05/74 0745	5001 5001		21 C 3	7.4	235	18AF			56 0	0.00	-- 0.13	-- 0.3	0.1 0.30	--	0.04 --	-- 0.12	
06/24/74 1130	5001 5001		24 C 3	8.1	520	24AF			104 0	0.02	-- 0.46	0.18 0.62	0.2 0.64	--	0.05 --	-- 0.25	
07/08/74 1100	5001 5001		23 C 3	7.9	430	24AF			98 0	0.09	-- 0.94	0.41 0.73	0.5 0.82	--	0.46 --	-- 0.55	
07/22/74 1140	5001 5001		26 C 3	8.0	490	18AF			98 0	0.08	-- 0.85	0.62 1.42	0.7 1.50	--	0.52 --	-- 0.71	
08/06/74 1020	5001 5001		26 C 3	7.7	490	16AF			116 0	0.14	-- 0.74	0.66 1.12	0.8 1.26	--	0.55 --	-- 0.69	
08/22/74 1210	5001 5001		24.0C 3	7.7	590	12AF			144 0	0.49	-- 0.92	0.91 1.37	1.4 1.86	--	0.71 --	-- 0.88	
09/04/74 1000	5001 5001		23 C 3	7.9	610	21AF			120 0	0.02	-- 0.88	0.68 1.24	0.7 1.26	--	0.09 --	-- 0.23	
09/18/74 0930	5001 5001		22 C 3	7.5	585	12AF			116 0	0.04	-- 0.71	0.56 0.96	0.6 1.00	--	0.06 --	-- 0.17	
89 D 753.5 129.3 MIDDLE RIVER AT BORDEN HIGHWAY																	
10/15/73 1300	5001 5001		19 C 3	7.4 7.7	340 352	16AF			94 0	0.07	-- 0.59	0.33 0.45	0.4 0.52	--	0.10 --	-- 0.14	
12/11/73 1305	5001 5001		9 C 3	7.4 7.8	382 363	17AF			74 0	0.08	-- 0.79	0.52 0.58	0.6 0.66	--	0.09 --	-- 0.15	
01/09/74 1230	5001 5001		6 C 3	7.2 7.9	365 368	18AF			70 0	0.08	-- 0.64	0.32 0.38	0.4 0.46	--	0.10 --	-- 0.13	
02/06/74 1055	5001 5001		8 C 3	7.3 9.5	413 390	21AF			35 17	0.04	-- 0.73	0.16 0.18	0.2 0.22	--	0.07 --	-- 0.12	
89 D 755.7 119.6 SAN JOAQUIN RIVER AT HIGHWAY 4																	
10/18/73 0625	5050 5001		19 C 3		430	17AF				0.32	-- 1.32	0.28 0.5	0.60 0.82	--	0.10 --	-- 0.22	
10/26/73 0805	5050 5001		16.5C 3		510	10AF				0.36	-- 1.06	0.44 0.72	0.80 1.08	--	0.08 --	-- 0.22	
11/15/73 1220	5050 5001		15 C 3		622	11AF				0.18	-- 1.50	0.42 0.68	0.60 0.86	--	0.27 --	-- 0.38	
12/13/73 1435	5050 5001		10.2C 3		512					0.18	-- 0.88	0.32 0.42	0.50 0.60	--	0.10 --	-- 0.16	
89 D 756.3 120.1 SAN JOAQUIN RIVER BELOW SANTA FE RR XING AT STOCKTON																	
10/18/73 0615	5050 5001		19 C 3		450	15AF				0.27	-- 1.22	0.33 0.67	0.60 1.14	--	0.22 --	-- 0.39	
10/26/73 0800	5050 5001		16.5C 3		590	11AF				0.32	-- 1.04	0.48 0.96	0.80 1.28	--	0.16 --	-- 0.32	
11/15/73 1210	5050 5001		15 C 3		658	10AF				0.21	-- 1.48	0.39 0.69	0.60 0.90	--	0.30 --	-- 0.43	

### NUTRIENT ANALYSIS OF SURFACE WATER

364

TABLE D-6 (CONTINUED)

## NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	EC	TURB F-CO2	CAC03 P	NO3 T	NO2 C03	NH3	NUTRIENT NO2 NO3	F ORB N U ORB N	F (NH3 + U ORB N)	DIS A.M.P04	F H3PO4 U H3PO4	F TOT P U TOT P
89 D 758.2 134.3 OLD RIVER OPPOSITE RANCHO DEL RIO																
CONTINUED																
04/25/74 0940	5001 5001		16 C 3	7.3	245	16AF				0.02	0.34	0.28 0.38	0.3 0.40	--	0.07 --	-- 0.10
05/09/74 0920	5001 5001		22 C 3	7.9	188	19AF				0.07	0.04	0.23 0.37	0.3 0.44	--	0.03 --	-- 0.10
05/22/74 0855	5001 5001		18 C 3	7.5	160	32AF				0.03	0.05	0.57 0.79	0.6 0.82	--	0.04 --	-- 0.12
06/05/74 0845	5001 5001		22 C 3	7.3	151	23AF				0.02	0.13	0.08 0.16	0.1 0.18	--	0.04 --	-- 0.09
06/24/74 1150	5001 5001		23 C 3	7.7	136	25AF				0.00	0.14	-- --	0.0 --	--	0.05 --	-- 0.12
07/08/74 1105	5001 5001		22.0C 3	7.7	157	22AF				0.01	0.05	0.09 0.21	0.1 0.22	--	0.05 --	-- 0.10
07/22/74 1055	5001 5001		25 C 3	7.6	199	21AF		62 0		0.00	0.12	-- 0.48	0.1 0.48	--	0.05 --	-- 0.12
08/06/74 1005	5001 5001		24 C 3	7.7	316	21AF		62 0		0.02	0.18	-- 0.44	0.3 0.46	--	0.06 --	-- 0.13
08/22/74 1210	5001 5001		23 C 3	7.7	262	20AF		62 0		0.02	0.05	-- --	0.0 --	--	0.04 --	-- 0.13
09/05/74 1105	5001 5001		23 C 3	7.6	198	18AF		64 0		0.04	0.08	-- 0.40	0.3 0.44	--	0.05 --	-- 0.11
09/18/74 1020	5001 5001		22 C 3	7.7	169	15AF		68 0		0.04	0.05	-- 0.36	0.3 0.40	--	0.04 --	-- 0.10
89 D 758.6 138.3 ROCK SLOUGH AT CONTRA COSTA CANAL INTAKE																
10/01/73 0855	5001 5001		19 C 3	7.8 7.9	268 271	25AF		98 0		-- 0.03	0.19	0.17 0.31	0.2 0.34	--	0.07 --	-- 0.15
10/29/73 1010	5001 5001		15.0C 3	7.8 7.9	220 206	20AF		72 0		-- 0.02	0.24	0.18 0.30	0.2 0.32	--	0.07 --	-- 0.11
12/03/73 1135	5001 5001		11 C 3	7.1 7.6	220 233	18AF		66 0		-- 0.03	0.38	0.27 0.37	0.30 0.40	--	0.06 --	-- 0.06
01/14/74 1115	5001 5001		8 C 3	7.8	760 726	22AF		116 0		0.08	1.55	0.52 0.66	0.6 0.74	--	0.07 --	-- 0.14
03/26/74 0920	5001 5001		15 C 3	7.3	233	21AF		68 0		0.01	0.29	0.29 0.37	0.3 0.38	--	0.06 --	-- 0.10
04/10/74 0910	5001 5001		15 C 3	7.6	338	18AF		76 0		0.05	0.39	0.25 0.33	0.3 0.38	--	0.05 --	-- 0.11
04/25/74 0855	5001 5001		16 C 3	7.7	353	17AF		74 0		0.01	0.29	0.19 0.35	0.2 0.36	--	0.05 --	-- 0.12
05/09/74 0925	5001 5001		21 C 3	7.7	215	24AF		64 0		0.02	0.02	0.28 0.50	0.3 0.52	--	0.03 --	-- 0.11
05/23/74 0805	5001 5001		19 C 3	7.6	178	28AF		58 0		0.01	0.01	0.19 0.39	0.2 0.40	--	0.04 --	-- 0.12
06/06/74 0805	5001 5001		23 C 3	7.2	150	28AF		58 0		0.01	0.06	-- --	0.0 --	--	0.04 --	-- 0.10
06/25/74 1105	5001 5001		22 C 3	6.8	140	30AF		54 0		0.02	0.16	0.48 0.88	0.5 0.90	--	0.05 --	-- 0.12
07/09/74 1020	5001 5001		21 C 3	7.8	157	23AF		62 0		0.05	0.07	0.25 0.33	0.3 0.38	--	0.07 --	-- 0.11
07/23/74 1020	5001 5001		25 C 3	7.5	215	27AF		62 0		0.04	0.08	0.66 1.10	0.7 1.14	--	0.06 --	-- 0.12
08/07/74 1030	5001 5001		26 C 3	7.4	310	25AF		64 0		0.08	0.11	0.62 0.82	0.7 0.90	--	0.06 --	-- 0.13
08/23/74 1155	5001 5001		25.0C 3	7.5	290	22AF		62 0		0.08	0.05	0.12 0.28	0.2 0.36	--	0.05 --	-- 0.16
09/05/74 0945	5001 5001		24 C 3	7.8	239	20AF		66 0		0.03	0.03	0.47 0.61	0.5 0.64	--	0.05 --	-- 0.12
09/19/74 0925	5001 5001		22 C 3	7.2	182	22AF		72 0		0.06	0.04	-- 0.48	0.34 0.54	--	0.05 --	-- 0.10
89 D 758.7 122.9 SAN JOAQUIN RIVER AT BUCKLEY COVE																
10/15/73 1215	5001 5001		19 C 2	7.6 7.9	530 526	12AF		120 0		-- 0.20	1.10	0.60 0.90	0.8 1.10	--	0.16 --	-- 0.27
12/11/73 1220	5001 5001		9 C 2	7.6 7.8	600 572	12AF		100 0		-- 0.20	1.15	0.70 0.84	0.9 1.04	--	0.31 --	-- 0.41
01/09/74 1135	5001 5001		7 C 2	7.2 7.6	249 248	20AF		75 0		0.12	0.40	0.48 0.56	0.6 0.68	--	0.12 --	-- 0.16
02/06/74 1000	5001 5001		9 C 2	7.2 9.6	403 394	14AF		37 16		0.10	0.55	0.10 0.18	0.2 0.28	--	0.13 --	-- 0.17
03/25/74 0935	5001 5001		15 C 3	7.3	518	14AF				0.12	0.08	0.38 0.56	0.5 0.68	--	0.20 --	-- 0.26
04/09/74 0810	5001 5001		15 C 3	7.2	277	18AF				0.12	0.52	0.28 0.42	0.4 0.54	--	0.13 --	-- 0.22
04/25/74 0800	5001 5001		16 C 3	7.1	395	15AF				0.11	0.61	0.39 0.63	0.5 0.74	--	0.15 --	-- 0.21
05/09/74 0750	5001 5001		19 C 3	7.5	430	18AF				0.03	0.53	-- 0.63	0.4 0.66	--	0.21 --	-- 0.32

TABLE D-6 (CONTINUED)														
NUTRIENT ANALYSIS OF SURFACE WATER														
DATE	SAMP	G.H.	TEMP	FIELD	TURB	CACD3	P	HC03	NH3	NUTRIENT	CONSTITUENTS IN MILLIGRAMS PER LITER			
TIME	LAB	DISCH.	DEPTH	PH	EC	F-CO2	CACD3	T	CO3	NO2	F ORG N	F (NH3 +	DIS	F TOT P
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	NO3	U ORG N	U ORG N	A.H.PD4	U TOT P
89 D 758.7 122.9 SAN JOAQUIN RIVER AT BUCKLEY COVE														
CONTINUED														
05/22/74	5001		17	C	7.5	328	18AF			--	0.71	0.8		--
0720	5001		3						0.09	0.37	0.91	1.00	--	0.23
06/05/74	5001		22	C	7.4	354	23AF			--	0.25	0.4		--
0705	5001		3						0.15	0.33	0.49	0.64	--	0.27
06/24/74	5001		23	C	7.4	332	20AF			--	0.12	0.3		--
1020	5001		3						0.18	0.51	0.26	0.44	--	0.26
07/08/74	5001		24.0C	7.7	280	21AF				--	0.18	0.2		--
0930	5001		3						0.02	0.20	0.54	0.56	--	0.23
07/22/74	5001		25	C	7.9	289	17AF	76		--	0.20	0.2		--
0925	5001		3					0	0.00	0.03	0.24	0.24	--	0.20
08/06/74	5001		26	C	7.6	229	18AF	74		--	0.25	0.3		--
0835	5001		3					0	0.05	0.06	0.59	0.64	--	0.19
08/22/74	5001		25	C	7.7	282	19AF	80		--	0.16	0.2		--
1040	5001		3					0	0.04	0.02	0.46	0.50	--	0.22
09/05/74	5001		25	C	7.7	504	7AF	134		--	0.46	0.7		--
0925	5001		3					0	0.24	0.53	0.80	1.04	--	0.49
09/18/74	5001		23	C	7.4	529	13AF	136		--	0.52	1.0		--
0830	5001		3					0	0.48	0.86	0.76	1.24	--	0.38
89 D 758.8 128.5 TURNER CUT AT McDONALD ISLAND FERRY														
03/25/74	5001		15	C	7.3	408	14AF			--	0.42	0.5		--
1010	5001		3						0.08	0.74	0.54	0.62	--	0.19
04/09/74	5001		15	C	7.3	295	15AF			--	0.48	0.6		--
0845	5001		3						0.12	0.59	0.62	0.74	--	0.23
04/25/74	5001		16	C	7.3	380	21AF			--	0.33	0.4		--
0835	5001		3						0.07	0.59	0.61	0.68	--	0.22
05/09/74	5001		19	C	7.4	438	22AF			--	0.31	0.4		--
0830	5001		3						0.09	0.59	0.49	0.58	--	0.27
05/22/74	5001		18	C	7.4	327	23AF			--	0.52	0.6		--
0800	5001		3						0.08	0.40	0.76	0.84	--	0.27
06/05/74	5001		22	C	7.2	420	21AF			--	0.38	0.4		--
0730	5001		3						0.18	0.43	0.38	0.56	--	0.27
06/24/74	5001		23	C	7.4	235	28AF			--	0.21	0.2		--
1050	5001		3						0.07	0.40	0.21	0.28	--	0.20
07/08/74	5001		23.0C	7.6	160	27AF				--	0.27	0.3		--
1005	5001		3						0.03	0.22	0.43	0.46	--	0.17
07/22/74	5001		25	C	7.8	174	22AF	62		--	0.09	0.1		--
0955	5001		3					0	0.01	0.13	0.53	0.54	--	0.15
08/06/74	5001		25	C	7.6	177	22AF	62		--	0.36	0.4		--
0910	5001		3					0	0.04	0.15	0.60	0.64	--	0.14
08/22/74	5001		24	C	7.7	178	19AF	66		--	--	0.0		--
1110	5001		3					0	0.03	0.03	--	--	--	0.16
09/05/74	5001		24	C	8.0	226	15AF	74		--	0.38	0.4		--
1000	5001		3					0	0.02	0.02	0.58	0.60	--	0.15
09/18/74	5001		23	C	7.7	428	16AF	118		--	0.28	0.4		--
0900	5001		3					0	0.12	0.53	0.58	0.70	--	0.29
89 D 759.6 121.4 14 MI SLOUGH NEAR INTER. CUMBERLAND AND 14 MILE ROAD														
10/31/73	2163		56	F	7.7	575	15A			0.22	0.8	--		--
0800	5050				7.8	580			0.18	1.3	--	--	--	2.4
11/27/73	2163		49	F	7.4	575	17A			0.12	0.8	--		--
1030	5050				7.4	587			1.8	1.1	--	--	--	2.7
89 D 759.8 125.1 SAN JOAQUIN RIVER AT RINDGE PUMP														
10/31/73	5050	2.04	59	F	7.2	550	12A			0.08	0.3	--		--
1000	5050				7.4	549			0.18	1.2	--	--	--	0.25
11/27/73	5050	2.42	51	F	7.2	625	12A			0.10	0.4	--		--
0900	5050				7.4	652			0.16	1.6	--	--	--	0.31
89 D 759.9 122.0 14 MI SLOUGH ABOVE LINCOLN VILLAGE WEST MARINA														
10/31/73	2163		57.5F	7.4	560	19A				0.16	0.6	--		--
0830	5050				7.5	562			0.24	1.2	--	--	--	0.89
11/27/73	2163		49	F	7.5	575	17A			0.07	0.7	--		--
0945	5050				7.5	591			0.62	0.95	--	--	--	1.2
89 D 800.0 120.8 14 MILE SLOUGH AT PLYMOUTH STREET														
10/31/73	2163		54	F	8.2	550	13A			0.25	0.9	--		--
0740	5050				8.3	576			0.01	1.2	--	--	--	3.8
11/27/73	2163		49	F	7.4	590	13A			0.14	1.0	--		--
1045	5050				7.4	575			2.2	1.2	--	--	--	3.0
89 D 800.5 134.8 OLD RIVER AT HOLLAND TRACT														
10/01/73	5001		20	C	8.0	212	17AF	82		--	0.17	0.2		--
0940	5001		3		7.9	221		0	0.03	0.17	0.27	0.30	--	0.12
10/29/73	5001		15.0C	7.9	200	28AF		66		--	0.37	0.4		--
1055	5001		3		8.1	183		0	0.03	0.24	0.53	0.56	--	0.10
12/03/73	5001		10.0C	7.4	156	13AF		54		--	0.18	0.22		--
1235	5001		3		7.7	165		0	0.04	0.30	0.26	0.30	--	0.06



TABLE D-6 (CONTINUED)

## NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY PH EC	TURB F-CO2	CAC03 CAC03	P T	HC03 CO3	NH3	NUTRIENT NO2 NO3	F OR8	N U	CONSTITUENTS IN MILLIGRAMS PER LITER F.(NH3 + U OR8 N U OR8 N)	DIS A.H.P04	F H3PO4 U H3PO4	F TOT P U TOT P
89 D 800.5 134.8 OLD RIVER AT HOLLAND TRACT																
CONTINUED																
01/14/74	5001		8 C	458	18AF		75				0.49	0.6			0.07	--
1215	5001		3 7.5	436		0	0.11		1.45	0.59	0.70	--		--	--	0.14
89 D 800.7 138.4 DUTCH SLOUGH AT BETHEL ISLAND BRIDGE																
10/01/73	5001		19 C	7.9	313	22AF	90				0.23	0.3			0.10	--
0855	5001		3 8.0	339		0	0.07		0.22	0.37	0.44	--		--	--	0.17
10/29/73	5001		15 C	8.0	240	21AF	77				0.26	0.3			0.08	--
0810	5001		3 7.7	228		0	0.04		0.24	0.38	0.42	--		--	--	0.12
12/03/73	5001		9 C	7.1	280	21AF	72				0.23	0.30			0.07	--
1105	5001		3 7.4	278		0	0.07		0.37	0.33	0.40	--		--	--	0.12
01/14/74	5001		8 C	7.5	465	21AF	82				0.76	0.9			0.10	--
1020	5001		3 7.7	452		0	0.16		1.20	0.88	1.04	--		--	--	0.17
89 D 800.8 123.0 14 MI SLOUGH BELOW DISAPPOINTMENT SLOUGH																
10/31/73	2163		50 F	7.4	540	15A				0.11	0.7	--			0.19	--
0940	5050			7.6	546			0.10	1.2	--	--	--		--	--	0.33
11/27/73	2163		50 F	7.3	625	14A				0.09	0.5	--			0.51	--
0830	5050			7.4	656			0.29	1.2	--	--	--		--	--	0.52
89 D 801.1 142.6 BIG BREAK NEAR OAKLEY																
10/02/73	5001		20.0C	7.8	248	16AF	82				0.15	0.2			0.08	--
1035	5001		3 8.1	232		0	0.05		0.20	0.23	0.28	--		--	--	0.13
10/30/73	5001		16.0C	7.0	166	13AF	65				0.26	0.3			0.06	--
0900	5001		3 7.9	163		0	0.04		0.24	0.34	0.38	--		--	--	0.11
12/04/73	5001		10 C	7.1	135	19AF	52				0.22	0.26			0.04	--
1220	5001		3 7.7	135		0	0.04		0.21	0.26	0.30	--		--	--	0.08
01/15/74	5001		8.0C	7.4	234	16AF	64				0.51	0.6			0.07	--
1110	5001		3 7.8	240		0	0.09		0.71	0.55	0.64	--		--	--	0.12
02/13/74	5001		9.0C	7.6	194	35AF	60				0.26	0.3			0.05	--
1040	5001		3 8.0	201		0	0.04		0.37	0.34	0.38	--		--	--	0.10
03/19/74	5001		14.0C	7.9	161	26AF					0.36	0.4			0.05	--
1410	5001		3				0.04		0.23	0.44	0.48	--		--	--	0.08
04/03/74	5001		13 C	7.7	175	28AF					0.27	0.3			0.05	--
1425	5001		3				0.03		0.20	0.35	0.38	--		--	--	0.10
04/18/74	5001		15 C	7.6	171	23AF					0.28	0.3			0.05	--
1435	5001		3				0.02		0.20	0.40	0.42	--		--	--	0.10
05/01/74	5001		18 C	8.1	165	22AF					--	0.0			0.03	--
1350	5001		3				0.02		0.07	--	--	--		--	--	0.09
05/15/74	5001		18 C	8.0	162	32AF					0.18	0.2			0.03	--
1215	5001		3				0.02		0.02	0.38	0.50	--		--	--	0.12
06/13/74	5001		20 C	8.1	167	37AF					0.29	0.3			0.04	--
1145	5001		3				0.01		0.02	0.51	0.52	--		--	--	0.14
06/27/74	5001		21 C	8.1	135	35AF					0.18	0.2			0.05	--
1140	5001		3				0.02		0.01	0.30	0.32	--		--	--	0.14
07/11/74	5001		20 C	7.9	258	30AF					0.09	0.1			0.05	--
1000	5001		3				0.01		0.01	0.27	0.28	--		--	--	0.11
07/25/74	5001		25 C	7.7	333	27AF	62				0.19	0.2			0.05	--
1015	5001		3			0	0.01		0.08	0.33	0.34	--		--	--	0.10
08/14/74	5001		22 C	7.8	418	21AF	64				0.28	0.3			0.05	--
1455	5001		3			0	0.02		0.18	0.38	0.40	--		--	--	0.10
08/28/74	5001		23.0C	8.2	276	24AF	64				--	0.0			0.05	--
1430	5001		3			0	0.02		0.06	--	--	--		--	--	0.09
09/11/74	5001		23 C	8.2	194	26AF	68				0.38	0.4			0.04	--
1510	5001		3			0	0.02		0.01	0.60	0.62	--		--	--	0.13
09/25/74	5001		20 C	8.1	163	16AF	68				0.17	0.2			0.04	--
1325	5001		3			0	0.03		0.06	0.29	0.32	--		--	--	0.10
89 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL																
10/02/73	5001		21.0C	7.5	641	28AF	84				0.36	0.4			0.09	--
0945	5001		3 8.0	655		0	0.04		0.20	0.54	0.58	--		--	--	0.17
10/31/73	5001		17.0C	7.4	377	24AF	68				0.25	0.3			0.08	--
0945	5001		3 7.0	397		0	0.05		0.22	0.37	0.42	--		--	--	0.14
12/04/73	5001		11.0C	7.0	126	32AF	52				0.08	0.12			0.05	--
1130	5001		3 7.5	131		0	0.04		0.22	0.16	0.20	--		--	--	0.12
01/15/74	5001		8.0C	6.3	191	22AF	67				0.45	0.5			0.06	--
1010	5001		3 8.0	209		0	0.05		0.45	0.51	0.56	--		--	--	0.10
02/13/74	5001		9.0C	7.6	173	48AF	62				0.27	0.3			0.04	--
0940	5001		3 7.8	180		0	0.03		0.34	0.37	0.40	--		--	--	0.11
03/20/74	5001		14.0C	7.8	158	29AF					0.18	0.2			0.03	--
1440	5001		3				0.02		0.18	0.28	0.30	--		--	--	0.09
04/03/74	5001		13 C	7.6	133	33AF					0.17	0.2			0.03	--
1350	5001		3				0.03		0.15	0.23	0.26	--		--	--	0.09
04/18/74	5001		15 C	7.5	163	27AF					0.18	0.2			0.04	--
1405	5001		3				0.02		0.18	0.28	0.30	--		--	--	0.10
05/01/74	5001		17 C	7.6	169	24AF					--	0.0			0.03	--
1320	5001		3				0.02		0.10	--	--	--		--	--	0.09

TABLE D-6 (CONTINUED)														
NUTRIENT ANALYSIS OF SURFACE WATER														
DATE	SAMP	B.H.	TEMP	FIELD	TURB	FIELD	LAB	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER						
TIME	LAB	DISCH.	DEPTH	PH	EC	F-CO2	CAC03	HC03	NH3	N02	F ORG N	F (NH3)	OIS	F H3PO4
							CAC03	C03		N03	U ORG N	U ORG N	A.H.P04	U H3PO4
B9 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL CONTINUED														
05/15/74	5001		18	C	8.0		167	20AF		--	0.18	0.2		0.03
1140	5001		3						0.02	0.02	0.38	0.40	--	0.11
06/13/74	5001		20	C	8.1		179	25AF		--	--	0.3		0.04
1115	5001		3						0.00	0.05	0.48	0.48	--	0.12
06/27/74	5001		21	C	7.9		240	26AF		--	--	0.5		0.05
1110	5001		3						0.00	0.03	0.6	0.60	--	0.11
07/11/74	5001		21	C	7.7		918	26AF		--	0.18	0.2		0.05
0930	5001		3						0.02	0.08	0.28	0.30	--	0.10
07/25/74	5001		24	C	7.6		926	33AF	62	--	0.38	0.4		0.05
0950	5001		3					0	0.02	0.18	0.50	0.52	--	--
08/14/74	5001		22	C	7.7		731	33AF	64	--	0.07	0.1		0.06
1430	5001		3					0	0.03	0.17	0.19	0.22	--	0.13
08/28/74	5001		23.0C		7.9		510	30AF	66	--	0.06	0.1		0.05
1410	5001		3					0	0.04	0.09	0.22	0.26	--	0.10
09/11/74	5001		22	C	8.0		218	20AF	68	--	0.37	0.4		0.04
1440	5001		3					0	0.03	0.04	0.53	0.56	--	0.13
09/25/74	5001		20	C	8.0		183	20AF	70	--	0.27	0.3		0.04
1300	5001		3					0	0.03	0.02	0.43	0.46	--	0.11
B9 D 801.3 127.9 STOCKTON SHIP CHANNEL AT LIGHT 18														
10/18/73	5050		18.0C				463	12AF		--	0.45	0.70		0.16
0655	5001		3						0.25	1.12	0.57	0.82	--	0.25
10/18/73	5050		18.0C				456	15AF		--	0.55	0.80		0.16
0650	5001		22						0.25	1.10	0.75	1.00	--	0.24
10/26/73	5050		17.0C				338	15AF		--	0.44	0.60		0.12
0805	5001		3						0.16	0.92	0.58	0.74	--	0.18
10/26/73	5050		17	C			314	20AF		--	0.52	0.70		0.12
0806	5001		58						0.18	0.88	0.68	0.86	--	0.18
11/15/73	5050		14	C			258	12AF		--	0.32	0.40		0.08
1210	5001		3						0.08	0.51	0.38	0.46	--	0.13
11/15/73	5050		14	C			271	18AF		--	0.52	0.60		0.08
1211	5001		31						0.08	0.55	0.6	0.68	--	0.14
12/13/73	5050		10	C			317	19AF		--	0.40	0.50		0.11
1210	5001		3						0.10	0.82	0.48	0.58	--	0.19
12/13/73	5050		10	C			323	20AF		--	0.51	0.60		0.12
1211	5001		34						0.09	0.82	0.61	0.70	--	0.19
B9 D 801.6 145.2 SAN JOAQUIN RIVER AT ANTIOCH BRIDGE (AT LIGHT 12)														
10/02/73	5001		21.0C	7.7			480	19AF	86	--	0.25	0.3		0.09
1015	5001		3	8.0			456		0	0.05	0.19	0.35	--	0.14
10/30/73	5001		18.0C	7.5			219	17AF	68	--	0.27	0.3		0.07
0830	5001		3	7.7			291		0	0.03	0.20	0.37	--	0.12
01/15/74	5001		8.0C	7.4			220	17AF	64	--	0.52	0.6		0.07
1045	5001		3	7.6			226		0	0.08	0.60	0.70	--	0.12
02/13/74	5001		9.0C	7.5			194	42AF	61	--	0.28	0.3		0.04
1015	5001		3	7.9			198		0	0.02	0.33	0.38	--	0.10
B9 D 801.9 151.4 NEW YORK SLOUGH NEAR PITTSBURG POINT														
10/31/73	5001		17.0C	7.4			641	28AF	69	--	0.25	0.3		0.08
0925	5001		3	7.7			671		0	0.05	0.23	0.37	--	0.14
B9 D 802.6 125.1 DISAPPOINTMENT SLOUGH AT BISHOP CUT														
03/25/74	5001		14	C	7.1		205	27AF	68	--	--	--		--
0830	5001		3						0	--	--	--	--	0.22
04/09/74	5001		15	C	7.5		262	19AF	76	--	0.47	0.5		0.19
0905	5001		3						0	0.03	0.49	0.69	--	0.28
04/24/74	5001		16	C	7.3		185	25AF	64	--	0.28	0.3		0.11
0755	5001		3						0	0.02	0.11	0.50	--	0.20
05/08/74	5001		20	C	7.5		182	22AF	64	--	0.27	0.3		0.11
0750	5001		3						0	0.03	0.05	0.48	--	0.20
05/22/74	5001		17	C	7.3		150	27AF	60	--	0.48	0.5		0.08
0710	5001		3						0	0.02	0.07	0.64	--	0.15
06/05/74	5001		22	C	6.8		152	27AF	20	--	0.09	0.1		0.08
0650	5001		3						0	0.01	0.10	0.30	--	0.15
06/24/74	5001		23	C	7.1		165	33AF	58	--	0.17	0.2		0.07
1030	5001		3						0	0.03	0.23	0.39	--	0.24
07/08/74	5001		22	C	7.9		170	32AF	66	--	0.16	0.2		0.08
0950	5001		3						0	0.04	0.19	0.44	--	0.14
07/22/74	5001		25	C	7.4		180	24AF	66	--	0.36	0.4		0.07
1025	5001		3						0	0.04	0.13	0.84	--	0.19
08/06/74	5001		25	C	7.2		182	22AF	68	--	0.71	0.8		0.08
0915	5001		3						0	0.09	0.09	0.95	--	0.17
08/22/74	5001		24.0C		7.6		195	21AF	72	--	0.63	0.7		0.05
1105	5001		3						0	0.07	0.03	0.94	--	0.17
09/04/74	5001		22	C	7.6		190	22AF	76	--	0.48	0.5		0.06
0900	5001		3						0	0.02	0.74	0.76	--	0.16

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	EC	NUTRIENT ANALYSIS OF SURFACE FIELD LAB				NUTRIENT WATER				CONSTITUENTS IN MILLIGRAMS PER LITER				F TOT P U TOT P		
						TURB F-CO2	CAC03 P CAC03 T	HC03 CO3	NH3	N02 N03	F ORG N U ORG N	F (NH3 + U ORG N)	DIS A.M.P04	F H3PO4 U H3PO4						
89 D 802.6 125.1 DISAPPOINTMENT SLOUGH AT BISHOP CUT																			CONTINUED	
09/18/74 0835	5001 5001		22 C 3	7.3 	150 	19AF 		84 0	0.04 	-- 0.02	0.46 0.66	0.5 0.70	-- 	0.05 --	-- 	0.13 				
89 D 802.6 136.8 FRANKS TRACT NEAR RUSSOS LANDING																				
10/02/73 1235	5001 5001		17.0C 3	7.6 6.2	223 214	14AF 		84 0	0.04 	-- 0.18	0.16 0.22	0.2 0.26	-- 	0.07 --	-- 	0.11 				
10/30/73 1055	5001 5001		16.0C 3	6.7 7.6	157 160	12AF 		65 0	0.04 	-- 0.25	0.26 0.36	0.3 0.40	-- 	0.06 --	-- 	0.12 				
12/04/73 1400	5001 5001		10.0C 3	7.1 7.9	131 134	17AF 		52 0	0.05 	-- 0.24	0.19 0.25	0.24 0.30	-- 	0.04 --	-- 	0.08 				
01/15/74 1310	5001 5001		8.0C 3	7.4 7.7	292 310	16AF 		70 0	0.12 	-- 1.08	0.68 0.72	0.8 0.84	-- 	0.08 --	-- 	0.12 				
02/13/74 1240	5001 5001		9.0C 3	7.5 8.0	224 230	32AF 		61 0	0.05 	-- 0.42	0.25 0.33	0.3 0.38	-- 	0.06 --	-- 	0.10 				
03/19/74 1610	5001 5001		14.0C 3	7.7 	155 	26AF 				-- 0.25	0.36 0.44	0.4 0.48	-- 	0.04 --	-- 	0.08 				
04/03/74 1515	5001 5001		14 C 3	7.5 	147 	18AF 				-- 0.21	0.16 0.20	0.2 0.24	-- 	0.04 --	-- 	0.09 				
04/17/74 1505	5001 5001		16 C 3	7.7 	189 	21AF 				-- 0.02	0.28 0.40	0.3 0.42	-- 	0.06 --	-- 	0.11 				
04/30/74 1335	5001 5001		18 C 3	7.7 	162 	20AF 				-- 0.04	0.06 0.15	0.1 0.18	-- 	0.04 --	-- 	0.09 				
05/14/74 1225	5001 5001		19 C 3	7.8 	150 	27AF 				-- 0.03	0.27 0.45	0.3 0.48	-- 	0.03 --	-- 	0.13 				
06/12/74 1155	5001 5001		20 C 3	8.1 	142 	27AF 				-- 0.00	-- 0.08	0.3 0.46	-- 	0.04 --	-- 	0.11 				
06/26/74 1140	5001 5001		21 C 3	8.1 	129 	25AF 				-- 0.01	0.19 0.27	0.2 0.28	-- 	0.05 --	-- 	0.10 				
07/10/74 0935	5001 5001		21 C 3	7.8 	202 	20AF 				-- 0.02	0.18 0.28	0.2 0.30	-- 	0.05 --	-- 	0.10 				
07/24/74 1005	5001 5001		24 C 3	7.7 	247 	22AF 		62 0	0.03 	-- 0.14	0.37 0.45	0.4 0.48	-- 	0.05 --	-- 	0.08 				
08/13/74 1515	5001 5001		22 C 3	7.8 	370 	26AF 		62 0	0.01 	-- 0.15	0.19 0.33	0.2 0.34	-- 	0.05 --	-- 	0.16 				
08/27/74 1510	5001 5001		23 C 3	8.0 	217 	24AF 		62 0	0.00 	-- 0.09	-- 	0.0 	-- 	0.05 --	-- 	0.13 				
09/12/74 1610	5001 5001		23 C 3	8.0 	161 	18AF 		68 0	0.01 	-- 0.04	0.19 0.35	0.2 0.36	-- 	0.04 --	-- 	0.12 				
09/24/74 1335	5001 5001		21 C 3	8.1 	157 	15AF 		68 0	0.04 	-- 0.07	0.16 0.24	0.2 0.28	-- 	0.04 --	-- 	0.10 				
89 D 802.6 147.6 SHERMAN LAKE NEAR ANTIOCH																				
10/04/73 1055	5001 5001		20.0C 3	7.6 8.0	369 424	34AF 		82 0	0.09 	-- 0.22	0.21 0.31	0.3 0.40	-- 	0.08 --	-- 	0.15 				
11/01/73 0920	5001 5001		17.0C 3	7.4 8.0	308 353	23AF 		67 0	0.04 	-- 0.21	0.26 0.40	0.3 0.44	-- 	0.08 --	-- 	0.14 				
12/06/73 1245	5001 5001		10.0C 3	7.0 7.9	126 130	62AF 		58 0	0.04 	-- 0.19	0.18 0.26	0.22 0.30	-- 	0.05 --	-- 	0.13 				
01/17/74 1210	5001 5001		10.0C 3	7.5 7.7	143 150	22AF 		61 0	0.05 	-- 0.26	0.25 0.29	0.3 0.34	-- 	0.04 --	-- 	0.08 				
02/14/74 1145	5001 5001		9.0C 3	7.5 7.7	142 144	42AF 		65 0	0.06 	-- 0.23	0.34 0.38	0.4 0.44	-- 	0.04 --	-- 	0.09 				
03/21/74 1425	5001 5001		13.0C 3	7.7 	133 	31AF 				-- 0.04	0.16 0.13	0.2 0.28	-- 	0.03 --	-- 	0.10 				
04/02/74 1145	5001 5001		11 C 3	7.7 	110 	52AF 				-- 0.03	0.07 0.15	0.1 0.18	-- 	0.03 --	-- 	0.11 				
04/17/74 1210	5001 5001		15 C 3	7.5 	149 	37AF 				-- 0.06	0.24 0.34	0.3 0.40	-- 	0.03 --	-- 	0.10 				
04/30/74 1100	5001 5001		16 C 3	7.5 	161 	25AF 				-- 0.05	0.15 0.21	0.2 0.28	-- 	0.04 --	-- 	0.10 				
05/14/74 0955	5001 5001		18 C 3	7.5 	141 	27AF 				-- 0.05	0.15 0.27	0.2 0.32	-- 	0.04 --	-- 	0.11 				
06/12/74 0905	5001 5001		20 C 3	8.2 	158 	33AF 				-- 0.00	-- 0.06	0.3 0.50	-- 	0.07 --	-- 	0.14 				
06/26/74 0925	5001 5001		20 C 3	7.9 	245 	34AF 				-- 0.02	0.38 0.52	0.4 0.54	-- 	0.05 --	-- 	0.12 				
07/10/74 0740	5001 5001		20 C 3	7.8 	760 	33AF 				-- 0.03	0.17 0.29	0.2 0.32	-- 	0.05 --	-- 	0.13 				
07/24/74 0805	5001 5001		23 C 3	7.7 	918 	34AF 		62 0	0.02 	-- 0.18	0.28 0.42	0.3 0.44	-- 	0.06 --	-- 	0.09 				
08/13/74 1320	5001 5001		21 C 3	7.8 	685 	33AF 		64 0	0.03 	-- 0.16	0.17 0.31	0.2 0.34	-- 	0.06 --	-- 	0.12 				
08/27/74 1325	5001 5001		22 C 3	7.7 	400 	30AF 		66 0	0.03 	-- 0.19	0.17 0.23	0.2 0.26	-- 	0.06 --	-- 	0.13 				
09/12/74 1330	5001 5001		22 C 3	7.9 	196 	29AF 		70 0	0.03 	-- 0.06	0.37 0.57	0.4 0.60	-- 	0.05 --	-- 	0.14 				

TABLE D-6 (CONTINUED)																
NUTRIENT ANALYSIS OF SURFACE WATER																
DATE	SAMP	G.H.	TEMP	FIELD	LAB				NUTRIENT				CONSTITUENTS IN MILLIGRAMS PER LITER			
TIME	LAB	DISCH.	DEPTH	PH	TURB	CAC03	P	HC03	NH3	NO2	F	ORG N	F (NH3)	DIS	F H3PO4	F TOT P
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
B9 D 802.6 147.6 SHERMAN LAKE NEAR ANTIOCH																
CONTINUED																
09/24/74	5001		20	C	7.9	178	22AF	70		--	0.27	0.3		0.04	--	
1150	5001		3					0	0.03	0.06	0.39	0.42	--	--	--	0.14
B9 D 802.7 123.3 DISAPPOINTMENT SLOUGH NEAR LODI																
10/15/73	5001		19	C	7.4	158	33AF	59		--	0.37	.4		0.04	--	
1100	5001		3		7.7	155		0	0.03	0.23	0.65	.68	--	--	--	0.14
12/11/73	5001		8	C	7.4	265	29AF	80		--	0.83	1.0		0.21	--	
1055	5001		3		7.7	258		0	0.17	0.82	0.97	1.14	--	--	--	0.33
01/09/74	5001		5	C	6.8	150	75AF	54		--	1.31	1.6		0.25	--	
0925	5001		3		7.5	144		0	0.29	0.55	1.51	1.80	--	--	--	0.38
02/06/74	5001		7	C	7.1	297	28AF	70		--	0.57	0.7		0.27	--	
0830	5001		3		9.3	323		16	0.13	1.20	0.75	0.88	--	--	--	0.38
B9 D 802.9 132.0 SAN JOAQUIN RIVER NEAR MOUTH OF MIDDLE RIVER																
03/25/74	5001		13	C	7.2	139	20AF			--	0.26	0.3		0.05	--	
0845	5001		3						0.04	0.19	0.32	0.36	--	--	--	0.09
04/09/74	5001		13	C	6.9	191	17AF			--	0.32	0.4		0.07	--	
0710	5001		3						0.08	0.35	0.38	0.46	--	--	--	0.13
04/25/74	5001		15	C	7.0	170	20AF			--	0.27	0.3		0.05	--	
0710	5001		3						0.03	0.21	0.35	0.38	--	--	--	0.08
05/09/74	5001		19	C	7.5	151	20AF			--	0.17	0.2		0.05	--	
0705	5001		3						0.03	0.17	0.25	0.28	--	--	--	0.09
05/22/74	5001		17	C	7.4	144	22AF			--	0.54	0.6		0.05	--	
0635	5001		3						0.06	0.15	0.58	0.64	--	--	--	0.10
06/05/74	5001		21	C	7.3	141	19AF			--	0.06	0.1		0.05	--	
0615	5001		3						0.04	0.15	0.10	0.14	--	--	--	0.09
06/24/74	5001		21	C	7.4	133	21AF			--	0.38	0.4		0.06	--	
0930	5001		3						0.02	0.21	0.44	0.46	--	--	--	0.10
07/08/74	5001		22.0	C	7.5	142	20AF			--	0.28	0.3		0.06	--	
0850	5001		3						0.02	0.14	0.36	0.38	--	--	--	0.09
07/22/74	5001		23	C	7.3	161	17AF	58		--	--	0.0		0.05	--	
0835	5001		3					0	0.02	0.15	--	--	--	--	--	0.10
08/06/74	5001		23	C	7.7	192	18AF	60		--	0.13	0.2		0.06	--	
0800	5001		3					0	0.07	0.17	0.21	0.28	--	--	--	0.12
08/22/74	5001		22	C	7.5	166	15AF	64		--	0.16	0.2		0.05	--	
0955	5001		3					0	0.04	0.12	0.22	0.26	--	--	--	0.11
09/05/74	5001		22	C	7.7	150	12AF	64		--	0.39	0.4		0.04	--	
0840	5001		3					0	0.01	0.10	0.45	0.46	--	--	--	0.10
09/18/74	5001		21	C	7.7	158	13AF	72		--	0.17	0.2		0.04	--	
0740	5001		3					0	0.03	0.09	0.23	0.26	--	--	--	0.10
B9 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT																
10/02/73	5001		20.0	C	7.8	267	17AF	82		--	0.24	0.3		0.08	--	
1100	5001		3		8.0	254		0	0.06	0.20	0.32	0.38	--	--	--	0.12
10/30/73	5001		16.0	C	6.9	184	16AF	66		--	0.26	0.3		0.06	--	
0925	5001		3		7.6	182		0	0.04	0.23	0.36	0.40	--	--	--	0.12
12/04/73	5001		11.0	C	7.1	132	20AF	51		--	0.12	0.16		0.04	--	
1240	5001		3		7.9	134		0	0.04	0.21	0.16	0.20	--	--	--	0.08
01/15/74	5001		8.0	C	7.4	234	20AF	64		--	0.16	0.6		0.07	--	
1140	5001		3		7.8	236		0	0.10	0.68	0.54	0.64	--	--	--	0.11
02/13/74	5001		9.0	C	7.6	193	39AF	60		--	0.58	0.2		0.05	--	
1110	5001		3		8.1	200		0	0.04	0.36	0.24	0.28	--	--	--	0.10
03/19/74	5001		14.0	C	7.7	150	26AF			--	0.36	0.4		0.04	--	
1440	5001		3						0.04	0.23	0.44	0.48	--	--	--	0.08
04/03/74	5001		13	C	7.5	131	32AF			--	0.06	0.1		0.04	--	
1450	5001		3						0.04	0.16	0.12	0.16	--	--	--	0.09
04/18/74	5001		15	C	7.6	161	22AF			--	0.17	0.2		0.05	--	
1450	5001		3						0.03	0.20	0.25	0.28	--	--	--	0.09
05/01/74	5001		17	C	7.7	161	20AF			--	--	0.0		0.03	--	
1410	5001		3						0.02	0.11	--	--	--	--	--	0.09
05/15/74	5001		18	C	7.9	139	18AF			--	0.18	0.2		0.04	--	
1240	5001		3						0.02	0.09	0.28	0.30	--	--	--	0.09
06/13/74	5001		20	C	8.1	136	23AF			--	--	0.4		0.05	--	
1210	5001		3						--	0.08	--	0.52	--	--	--	0.11
06/27/74	5001		21	C	8.0	128	22AF			--	0.19	0.2		0.05	--	
1205	5001		3						0.01	0.06	0.27	0.28	--	--	--	0.11
07/10/74	5001		21	C	7.8	345	21AF			--	0.18	0.2		0.05	--	
0915	5001		3						0.02	0.04	0.30	0.32	--	--	--	0.10
07/24/74	5001		24	C	7.7	480	22AF	62		--	0.37	0.4		0.06	--	
0940	5001		3					0	0.03	0.14	0.47	0.50	--	--	--	0.09
08/13/74	5001		22	C	7.9	544	23AF	64		--	0.28	0.3		0.06	--	
1450	5001		3					0	0.02	0.15	0.32	0.34	--	--	--	0.15
08/27/74	5001		22	C	8.0	355	21AF	66		--	--	0.0		0.05	--	
1455	5001		3					0	0.0	0.07	--	--	--	--	--	0.13
09/12/74	5001		22	C	9.0	180	18AF	68		--	0.17	0.2		0.04	--	
1635	5001		3					0	0.03	0.03	0.31	0.34	--	--	--	0.12

TABLE D-6 (CONTINUED)

NUTRIENT ANALYSIS OF SURFACE WATER																		
DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	FIELD LAB							NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER						
					TURB F-CO2	CAC03 CAC03	P T	HC03 CO3	NH3	NO2 NO3	F ORB N U ORB N	F (NH3 + U ORB N)	DIS A.H2PO4	F H3PO4 U H3PO4	F TOT P U TOT P			
89 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT																		
CONTINUED																		
09/24/74 1315	5001 5001		20 C 3	8.0	169	154F		70 0	0.02		-- 0.06	0.18 0.30	0.2 0.32	--	0.04 --	--	0.10	
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO																		
10/04/73 1040	5001 5001		19.0C 3	7.8 8.2	457 440	284F		81 0	0.09		-- 0.23	0.31 0.41	0.4 0.50	--	0.08 --	--	0.14	
11/01/73 0910	5001 5001		17.0C 3	7.4 7.9	360 406	244F		67 0	0.06		-- 0.23	0.34 0.46	0.4 0.52	--	0.08 --	--	0.14	
01/17/74 1145	5001 5001		9.0C 3	7.6 7.6	133 136	204F		59 0	0.04		-- 0.22	0.26 0.30	0.3 0.34	--	0.04 --	--	0.08	
02/14/74 1010	5001 5001		9.0C 3	7.6 7.7	148 162	464F		68 0	0.04		-- 0.23	0.26 0.32	0.3 0.36	--	0.04 --	--	0.09	
03/21/74 1405	5001 5001		13.0C 3	7.6	143	274F			0.04		-- 0.12	0.16 0.24	0.2 0.28	--	0.03 --	--	0.10	
04/02/74 1120	5001 5001		12 C 3	7.7	129	644F			0.04		-- 0.14	0.16 0.24	0.2 0.28	--	0.03 --	--	0.12	
04/17/74 1145	5001 5001		15 C 3	7.3	143	324F			0.07		-- 0.19	0.23 0.31	0.3 0.38	--	0.04 --	--	0.09	
04/30/74 1035	5001 5001		16 C 3	7.5	162	214F			0.04		-- 0.15	0.06 0.12	0.1 0.16	--	0.04 --	--	0.08	
05/14/74 0940	5001 5001		18 C 3	7.6	159	204F			0.02		-- 0.04	0.18 0.32	0.2 0.34	--	0.03 --	--	0.10	
06/12/74 0830	5001 5001		20 C 3	8.1	178	254F			--		-- 0.04	-- --	0.3 0.46	--	0.04 --	--	0.12	
06/26/74 0850	5001 5001		20 C 3	7.9	228	264F			0.03		-- 0.11	0.24 0.29	0.2 0.32	--	0.06 --	--	0.10	
07/10/74 0720	5001 5001		20 C 3	7.9	1150	304F			0.02		-- 0.10	0.18 0.30	0.2 0.32	--	0.05 --	--	0.12	
07/24/74 0745	5001 5001		23 C 3	7.7	1240	334F		62 0	0.03		-- 0.19	0.27 0.43	0.3 0.46	--	0.06 --	--	0.16	
08/14/74 1405	5001 5001		21 C 3	7.9	572	284F		64 0	0.02		-- 0.16	0.38 0.48	0.4 0.50	--	0.06 --	--	0.13	
08/27/74 1310	5001 5001		21 C 3	7.7	402	294F		64 0	0.00		-- 0.14	-- 0.16	0.1 0.18	--	0.05 --	--	0.14	
09/12/74 1315	5001 5001		22 C 3	7.9	208	244F		70 0	0.03		-- 0.08	0.17 0.31	0.2 0.34	--	0.04 --	--	0.13	
09/24/74 1120	5001 5001		19 C 3	7.6	163	184F		68 0	0.04		-- 0.10	0.16 0.26	0.2 0.30	--	0.04 --	--	0.12	
89 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATO POINT																		
10/02/73 1205	5001 5001		18.0C 3	7.8 7.9	180 170	104F		73 0	0.07		-- 0.17	0.23 0.27	0.3 0.34	--	0.07 --	--	0.10	
10/30/73 1030	5001 5001		16.0C 3	6.8 7.7	163 161	104F		64 0	0.08		-- 0.27	0.32 0.38	0.4 0.46	--	0.06 --	--	0.11	
12/04/73 1335	5001 5001		11.0C 3	7.0 7.8	120 121	264F		49 0	0.06		-- 0.22	0.08 0.14	0.14 0.20	--	0.04 --	--	0.09	
01/15/74 1235	5001 5001		8.0C 3	7.5 7.7	179 184	164F		61 0	0.09		-- 0.48	0.41 0.45	0.5 0.54	--	0.06 --	--	0.10	
02/13/74 1205	5001 5001		9.0C 3	7.5 8.0	164 169	364F		59 0	0.05		-- 0.28	0.25 0.31	0.3 0.36	--	0.05 --	--	0.10	
03/19/74 1545	5001 5001		14.0C 3	7.7	128	234F			0.04		-- 0.17	0.36 0.42	0.4 0.46	--	0.04 --	--	0.07	
04/02/74 1420	5001 5001		12 C 3	7.6	124	234F			0.05		-- 0.16	0.15 0.19	0.2 0.24	--	0.04 --	--	0.08	
04/17/74 1445	5001 5001		15 C 3	7.6	146	234F			0.03		-- 0.18	0.27 0.35	0.3 0.38	--	0.05 --	--	0.09	
04/30/74 1315	5001 5001		16 C 3	7.3	145	184F			0.04		-- 0.17	0.06 0.12	0.1 0.16	--	0.04 --	--	0.08	
05/14/74 1205	5001 5001		18 C 3	7.3	133	204F			0.05		-- 0.15	0.15 0.21	0.2 0.26	--	0.05 --	--	0.11	
06/12/74 1135	5001 5001		20 C 3	7.9	139	204F			0.02		-- 0.17	0.28 0.34	0.3 0.36	--	0.05 --	--	0.09	
06/26/74 1125	5001 5001		21 C 3	7.8	127	174F			0.03		-- 0.18	0.27 0.31	0.3 0.34	--	0.06 --	--	0.09	
07/10/74 1000	5001 5001		21 C 3	7.7	143	174F			0.04		-- 0.12	0.16 0.22	0.2 0.26	--	0.05 --	--	0.10	
07/24/74 1025	5001 5001		24 C 3	7.7	159	174F		58 0	0.04		-- 0.16	0.26 0.34	0.3 0.38	--	0.06 --	--	0.08	
08/13/74 1530	5001 5001		22 C 3	7.6	199	174F		62 0	0.02		-- 0.16	0.18 0.26	0.2 0.28	--	0.05 --	--	0.15	
08/27/74 1530	5001 5001		22 C 3	7.8	154	134F		64 0	0.01		-- 0.11	-- --	0.0 --	--	0.04 --	--	0.08	
09/12/74 1550	5001 5001		22 C 3	7.8	155	134F		68 0	0.03		-- 0.09	0.17 0.25	0.2 0.28	--	0.04 --	--	0.10	
09/24/74 1350	5001 5001		20 C 3	7.6	157	104F		66 0	0.05		-- 0.12	0.15 0.21	0.2 0.26	--	0.05 --	--	0.10	

TABLE D-6 (CONTINUED)														
NUTRIENT ANALYSIS OF SURFACE WATER														
DATE	SAMP	G.M.	TEMP	FIELD	FIELD	LAB	NUTRIENT			CONSTITUENTS IN MILLIGRAMS PER LITER				
TIME	LAB	DISCH.	DEPTH	PH	EC	TURB	NO2	NO3	U	F	N	F	DIS	F
						CO2	CO3	NH3		ORG	N	ORG	N	TOT P
						CO3	CO3							
89 D 805.0 128.1 WHITE SLOUGH AT CORREIA FERRY (SITE)														
03/25/74	5001		15	C	7.2	107	28AF	52	--	0.17	0.2	--	0.03	--
0915	5001		2					0	0.03	0.11	0.25	0.28	--	0.08
04/09/74	5001		13	C	7.2	82	15AF	40	--	0.16	0.2	--	0.02	--
0810	5001		3					0	0.04	0.09	0.22	0.26	--	0.05
04/24/74	5001		13	C	7.4	120	17AF	48	--	0.19	0.2	--	0.02	--
0700	5001		3					0	0.01	0.07	0.27	0.28	--	0.06
05/08/74	5001		18	C	7.4	115	15AF	46	--	0.07	0.1	--	0.02	--
0700	5001		3					0	0.03	0.08	0.13	0.16	--	0.06
05/22/74	5001		16	C	7.2	120	16AF	52	--	0.27	0.3	--	0.04	--
0620	5001		3					0	0.03	0.10	0.33	0.36	--	0.07
06/05/74	5001		19	C	7.0	86	14AF	38	--	--	--	0.0	0.03	--
0600	5001		3					0	0.01	0.12	--	--	--	0.07
06/24/74	5001		20	C	7.2	120	17AF	46	--	0.07	0.1	--	0.04	--
0930	5001		3					0	0.03	0.26	0.09	0.12	--	0.05
07/08/74	5001		22	C	7.5	132	18AF	58	--	0.35	0.4	--	0.06	--
0900	5001		3					0	0.05	0.20	0.41	0.46	--	--
07/22/74	5001		23	C	7.5	145	15AF	60	--	0.43	0.5	--	0.05	--
0920	5001		3					0	0.07	0.17	0.77	0.84	--	0.10
08/06/74	5001		23	C	7.1	139	15AF	66	--	0.51	0.6	--	0.06	--
0830	5001		3					0	0.09	0.18	0.61	0.70	--	0.11
08/22/74	5001		22.0	C	7.1	132	13AF	58	--	0.24	0.3	--	0.04	--
1015	5001		3					0	0.06	0.11	0.28	0.34	--	0.10
09/04/74	5001		21	C	7.5	141	11AF	62	--	0.52	0.6	--	0.05	--
0810	5001		3					0	0.08	0.13	0.58	0.66	--	0.09
09/18/74	5001		20	C	7.4	142	11AF	62	--	0.44	0.5	--	0.05	--
0755	5001		3					0	0.06	0.10	0.48	0.54	--	0.09
89 D 805.1 144.3 SACRAMENTO RIVER AT EMMATON														
10/04/73	5001		19.0	C	7.7	295	23AF	80	--	0.31	0.4	--	0.08	--
1120	5001		3		8.0	310		0	0.09	0.23	0.39	0.48	--	0.14
11/01/73	5001		16.0	C	7.3	220	18AF	65	--	0.23	0.3	--	0.08	--
0945	5001		3		7.9	229		0	0.07	0.25	0.31	0.38	--	0.13
12/06/73	5001		10.0	C	7.0	115	54AF	53	--	0.21	0.24	--	0.05	--
1315	5001		3		7.9	117		0	0.03	0.19	0.27	0.30	--	0.13
01/17/74	5001		10.0	C	7.6	140	21AF	58	--	0.26	0.3	--	0.04	--
1245	5001		3		7.6	143		0	0.04	0.24	0.30	0.34	--	0.09
02/14/74	5001		9.0	C	7.5	142	44AF	54	--	0.24	0.3	--	0.04	--
1120	5001		3		7.5	144		0	0.06	0.23	0.28	0.34	--	0.09
03/21/74	5001		13.0	C	7.8	142	29AF	--	--	0.26	0.3	--	0.03	--
1455	5001		3					0.04	0.14	0.34	0.38	--	--	0.18
04/02/74	5001		11	C	7.6	117	80AF	--	--	0.16	0.2	--	0.03	--
1210	5001		3					0.04	0.11	0.26	0.30	--	--	0.14
04/17/74	5001		15	C	7.6	134	32AF	--	--	0.35	0.4	--	0.03	--
1240	5001		3					0.05	0.14	0.43	0.48	--	--	0.09
04/30/74	5001		15	C	7.5	145	21AF	--	--	0.14	0.2	--	0.04	--
1125	5001		3					0.06	0.18	0.18	0.24	--	--	0.09
05/14/74	5001		17	C	7.5	131	20AF	--	--	0.15	0.2	--	0.04	--
1015	5001		3					0.05	0.13	0.23	0.28	--	--	0.09
06/12/74	5001		19	C	8.1	143	25AF	--	--	--	0.2	--	0.05	--
0940	5001		3					0.00	0.11	0.3	0.30	--	--	0.08
06/26/74	5001		20	C	7.9	167	21AF	--	--	0.18	0.2	--	0.05	--
0945	5001		3					0.02	0.12	0.26	0.26	--	--	0.11
07/10/74	5001		21	C	7.9	249	22AF	--	--	0.08	0.1	--	0.05	--
0800	5001		3					0.02	0.12	0.18	0.20	--	--	0.10
07/24/74	5001		23	C	7.7	273	21AF	62	--	0.26	0.3	--	0.07	--
0835	5001		3					0	0.04	0.17	0.36	0.40	--	0.08
08/13/74	5001		21	C	7.8	268	18AF	62	--	0.29	0.3	--	0.05	--
1340	5001		3					0	0.01	0.12	0.35	0.36	--	0.14
08/27/74	5001		21	C	7.7	207	18AF	64	--	--	0.0	--	0.05	--
1345	5001		3					0	0.02	0.13	--	--	--	0.11
09/12/74	5001		21	C	7.9	163	15AF	72	--	0.08	0.1	--	0.04	--
1400	5001		3					0	0.02	0.10	0.18	--	--	0.11
09/24/74	5001		19	C	7.9	151	14AF	66	--	0.17	0.2	--	0.05	--
1210	5001		3					0	0.03	0.12	0.21	0.24	--	0.11
89 D 805.2 124.1 WHITE SLOUGH AT RIO BLANCO TRACT														
10/15/73	5001		20	C	7.4	522	7AF	164	--	0.6	2.6	--	4.00	--
1015	5001		3		7.3	539		0	2.00	2.90	3.20	--	--	5.00
02/06/74	5001		7	C	7.2	775	17AF	183	--	1.50	4.7	--	5.30	--
0740	5001		3		8.7	721		16	3.20	5.10	5.42	--	--	5.90

TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	FIELD LABORATORY EC	NUTRIENT ANALYSIS OF SURFACE				WATER NUTRIENT				CONSTITUENTS IN MILLIGRAMS PER LITER				F TOT P	
						TURB	CAC03	P	MC03	NH3	N02	F	OR6	N	F (NH3 +	DIS	F H3PO4	F TOT P	F TOT P
						F-CO2	CAC03	T	CO3		N03	U	OR6	N	U OR6 N	A.M.P04	U H3PO4		
B9 D 805.2 126.0 WHITE SLOUGH NEAR LODI																			
12/11/73	5001		7 C	6.9	181	22AF			61		--		0.51	0.6			0.07	--	
0940	5001		3	7.6	174				0	0.09	0.46		0.55	0.64		--	--	0.12	
B9 D 805.8 140.1 SAN JOAQUIN RIVER AT TWITCHELL ISLAND																			
10/02/73	5001		20.0C	7.8	238	15AF			82		--		0.26	0.3			0.08	--	
1120	5001		3	8.0	233				0	0.04	0.18		0.34	0.38		--	--	0.11	
10/30/73	5001		18.0C	6.9	163	14AF			65		--		0.16	0.2			0.06	--	
0950	5001		3	7.7	159				0	0.04	0.23		0.24	0.28		--	--	0.12	
12/04/73	5001		11.0C	7.1	124	24AF			51		--		0.11	0.16			0.04	--	
1305	5001		3	7.8	125				0	0.05	0.19		0.15	0.20		--	--	0.08	
01/15/74	5001		8.0C	7.5	166	17AF			62		--		0.33	0.4			0.05	--	
1200	5001		3	7.6	170				0	0.07	0.38		0.37	0.44		--	--	0.09	
02/13/74	5001		9.0C	7.5	193	44AF			59		--		0.16	0.2			0.05	--	
1135	5001		3	8.0	198				0	0.04	0.25		0.24	0.28		--	--	0.10	
03/19/74	5001		13.0C	7.7	141	27AF					--		0.27	0.3			0.04	--	
1505	5001		3							0.03	0.19		0.35	0.38		--	--	0.08	
04/02/74	5001		12 C	7.7	127	35AF					--		0.05	0.1			0.04	--	
1340	5001		3							0.05	0.16		0.11	0.16		--	--	0.09	
04/17/74	5001		15 C	7.6	153	24AF					--		0.26	0.3			0.05	--	
1410	5001		3							0.04	0.21		0.34	0.38		--	--	0.10	
04/30/74	5001		16 C	7.5	153	19AF					--		0.15	0.2			0.04	--	
1235	5001		3							0.05	0.16		0.23	0.28		--	--	0.10	
05/14/74	5001		18 C	7.4	135	18AF					--		0.16	0.2			0.04	--	
1120	5001		3							0.04	0.14		0.22	0.26		--	--	0.09	
06/12/74	5001		20 C	8.1	140	18AF					--		0.19	0.2			0.05	--	
1100	5001		3							0.01	0.12		0.29	0.30		--	--	0.08	
06/26/74	5001		20 C	8.0	133	20AF					--		0.48	0.5			0.05	--	
1045	5001		3							0.02	0.13		0.52	0.54		--	--	0.10	
07/10/74	5001		21 C	7.9	230	17AF					--		0.19	0.2			0.05	--	
1030	5001		3							0.01	0.06		0.29	0.30		--	--	0.08	
07/24/74	5001		24 C	7.7	277	19AF			62		--		0.28	0.3			0.06	--	
1105	5001		3						0	0.02	0.15		0.38	0.40		--	--	0.08	
08/13/74	5001		22 C	7.9	423	20AF			64		--		0.29	0.3			0.05	--	
1610	5001		3						9	0.01	0.14		0.37	0.38		--	--	0.15	
08/27/74	5001		22 C	8.0	292	18AF			64		--		--	0.0			0.05	--	
1610	5001		3						0	0.01	0.07		--	--		--	--	0.09	
09/12/74	5001		22 C	8.0	166	17AF			68		--		0.19	0.2			0.04	--	
1515	5001		3						0	0.01	0.04		0.35	0.38		--	--	0.12	
09/24/74	5001		20 C	8.0	157	12AF			68		--		0.27	0.3			0.04	--	
1425	5001		3						0	0.03	0.09		0.35	0.38		--	--	0.10	
B9 D 805.9 135.2 SAN JOAQUIN RIVER NEAR SAN ANDREAS LANDING																			
03/19/74	5001		14.0C	7.7	127	25AF					--		0.56	0.6			0.04	--	
1530	5001		3							0.04	0.19		0.62	0.66		--	--	0.07	
03/26/74	5001		13 C	7.6	116	24AF					--		0.25	0.3			0.04	--	
1105	5001		3							0.05	0.15		0.31	0.36		--	--	0.08	
04/02/74	5001		12 C	7.7	122	25AF					--		0.16	0.2			0.03	--	
1405	5001		3							0.04	0.15		0.20	0.24		--	--	0.08	
04/10/74	5001		13 C	7.3	125	23AF					--		0.23	0.3			0.04	--	
0915	5001		3							0.07	0.19		0.27	0.34		--	--	0.08	
04/17/74	5001		15 C	7.6	143	23AF					--		0.27	0.3			0.05	--	
1435	5001		3							0.03	0.19		0.35	0.38		--	--	0.09	
04/24/74	5001		14 C	7.2	141	20AF					--		0.16	0.2			0.05	--	
0830	5001		3							0.04	0.15		0.24	0.28		--	--	0.09	
04/30/74	5001		16 C	7.4	146	18AF					--		0.06	0.1			0.04	--	
1300	5001		3							0.04	0.17		0.10	0.14		--	--	0.08	
05/08/74	5001		17 C	7.5	139	20AF					--		0.17	0.2			0.04	--	
0745	5001		3							0.03	0.15		0.25	0.28		--	--	0.09	
05/14/74	5001		18 C	7.3	127	19AF					--		0.25	0.3			0.05	--	
1155	5001		3							0.05	0.15		0.31	0.36		--	--	0.08	
05/23/74	5001		17 C	7.4	134	23AF					--		0.64	0.7			0.05	--	
0845	5001		3							0.06	0.15		0.72	0.78		--	--	0.09	
06/06/74	5001		21 C	7.4	136	20AF					--		0.06	0.1			0.05	--	
0755	5001		3							0.04	0.16		0.12	0.16		--	--	0.08	
06/12/74	5001		20 C	7.9	130	18AF					--		0.27	0.3			0.06	--	
1125	5001		3							0.03	0.15		0.31	0.34		--	--	0.09	
06/25/74	5001		20 C	7.7	124	20AF					--		--	0.0			0.06	--	
1145	5001		3							0.02	0.17		--	--		--	--	0.10	
06/26/74	5001		20 C	7.9	126	19AF					--		--	0.0			0.05	--	
1110	5001		3							0.02	0.17		--	--		--	--	0.10	
07/09/74	5001		22 C	7.9	143	18AF					--		0.06	0.1			0.06	--	
1020	5001		3							0.04	0.13		0.10	0.14		--	--	0.11	
07/10/74	5001		21 C	7.7	153	18AF					--		0.17	0.2			0.05	--	
1010	5001		3							0.03	0.12		0.23	0.26		--	--	0.10	
07/23/74	5001		23 C	7.7	177	22AF			60		--		--	0.0			0.05	--	
1030	5001		3						0	0.02	0.15		--	--		--	--	0.11	

TABLE D-6 (CONTINUED)																
NUTRIENT ANALYSIS OF SURFACE WATER																
DATE	SAMP	G.H.	TEMP	FIELD	FIELD	LAB	TURB	CAC03	P	HC03	NH3	NO2	F	OR0	N	F (NH3 +
TIME	LAB	DISCH.	DEPTH	PH	EC	F-CO2	CAC03	T	CD3			NO3	U	OR6	N	DIS
																F H3PO4
																U TOT P
89 D 805.9 135.2 SAN JOAQUIN RIVER NEAR SAN ANDREAS LANDING																
CONTINUED																
07/24/74	5001		24	C	7.6	193	18AF		58			--	0.36	0.4		0.05
1040	5001		3						0	0.04		0.16	0.42	0.46	--	0.08
08/07/74	5001		23	C	7.7	237	18AF		60			--	0.28	0.3		0.06
1010	5001		3						0	0.02		0.15	0.38	0.40	--	0.11
08/13/74	5001		22	C	7.8	238	18AF		62			--	0.18	0.2		0.05
1545	5001		3						0	0.02		0.13	0.26	0.28	--	0.14
08/23/74	5001		22	C	7.7	170	15AF		62			--	--	0.0		0.05
1220	5001		3						0	0.05		0.12	--	--	--	0.11
08/27/74	5001		22	C	7.8	172	14AF		68			--	0.08	0.1		0.04
1545	5001		3						0	0.02		0.11	0.12	0.14	--	0.10
09/04/74	5001		21	C	8.0	150	14AF		66			--	0.16	0.2		0.04
0900	5001		3						0	0.04		0.13	0.19	0.23	--	0.10
09/12/74	5001		22	C	7.8	155	13AF		68			--	0.08	0.1		0.04
1525	5001		3						0	0.02		0.09	0.16	0.18	--	0.10
09/19/74	5001		20	C	7.7	185	13AF		70			--	0.16	0.2		0.05
1000	5001		3						0	0.04		0.10	0.24	0.28	--	0.08
09/24/74	5001		20	C	7.8	151	9AF		64			--	0.15	0.2		0.05
1405	5001		3						0	0.05		0.12	0.21	0.26	--	0.10
89 D 807.0 129.9 MOKELUMNE RIVER, SOUTH FORK, AT STATEN ISLAND																
10/16/73	5001		17	C	7.8	145	10AF		60			--	0.22	0.3		0.06
1230	5001		3		7.8	138			0	0.04		0.15	0.26	0.34	--	0.10
12/12/73	5001		8	C	7.1	131	24AF		56			--	0.15	0.2		0.04
1130	5001		3		7.8	126			0	0.05		0.16	0.19	0.24	--	0.09
01/10/74	5001		6	C		150	28AF		55			--	0.42	0.5		0.06
1220	5001		3		7.7	144			0	0.08		0.33	0.44	0.52	--	0.10
02/07/74	5001		8	C	7.2	128	50AF		54			--	0.24	0.3		0.04
1020	5001		3		8.0	121			0	0.06		0.21	0.30	0.36	--	0.13
89 D 807.6 129.7 MOKELUMNE RIVER, SOUTH FORK, BELOW SYCAMORE SLOUGH																
03/26/74	5001		12	C	7.3	111	23AF					--	0.17	0.2		0.03
0910	5001		3							0.03		0.09	0.23	0.26	--	0.07
04/10/74	5001		14	C	7.2	92	27AF					--	0.15	0.2		0.03
0720	5001		3							0.05		0.09	0.19	0.24	--	0.07
04/24/74	5001		14	C	7.2	110	20AF					--	0.18	0.2		0.03
0625	5001		3							0.02		0.08	0.26	0.28	--	0.06
05/08/74	5001		17	C	7.6	120	17AF					--	0.15	0.2		0.04
0600	5001		3							0.05		0.14	0.19	0.24	--	0.09
05/23/74	5001		17	C	7.3	113	18AF					--	0.63	0.7		0.04
0710	5001		3							0.07		0.10	0.67	0.74	--	0.09
06/06/74	5001		20	C	7.3	110	16AF					--	--	0.0		0.03
0625	5001		3							0.04		0.09	--	--	--	0.07
06/25/74	5001		20	C	7.6	126	18AF					--	--	0.0		0.05
1005	5001		3							0.0		0.15	--	--	--	0.10
07/09/74	5001		21	C	7.4	129	22AF					--	0.15	0.2		0.06
0840	5001		3							0.05		0.12	0.21	0.26	--	0.11
07/23/74	5001		24	C	7.6	133	16AF		58			--	--	0.0		0.05
0650	5001		3						0	0.03		0.12	--	--	--	0.12
08/07/74	5001		24	C	7.5	134	16AF		60			--	0.26	0.3		0.05
0830	5001		3						0	0.04		0.13	0.38	0.42	--	0.11
08/23/74	5001		22	C	7.5	147	11AF		64			--	--	0.0		0.04
1040	5001		3						0	0.06		0.09	--	--	--	0.11
09/04/74	5001		20	C	7.9	144	11AF		68			--	0.25	0.3		0.05
0725	5001		3						0	0.05		0.11	0.31	0.36	--	0.09
09/19/74	5001		20	C	7.3	180	12AF		66			--	0.15	0.2		0.05
0825	5001		3						0	0.05		0.10	0.21	0.26	--	0.08
89 D 808.5 128.0 SYCAMORE SLOUGH NEAR MOUTH																
03/26/74	5001		14	C	7.3	176	12AF					--	0.38	0.7		0.15
0845	5001		3							0.32		0.66	0.56	0.88	--	0.22
04/10/74	5001		14	C	7.2	157	16AF					--	0.36	0.6		0.16
0655	5001		3							0.24		0.66	0.56	0.80	--	0.25
04/24/74	5001		15	C	7.7	155	15AF					--	--	0.3		0.12
0550	5001		3							0.00		0.28	0.8	0.80	--	0.24
05/08/74	5001		19	C	7.6	95	9AF					--	0.18	0.2		0.05
0535	5001		3							0.02		0.01	0.38	0.40	--	0.14
05/23/74	5001		18	C	7.3	107	16AF					--	0.57	0.6		0.04
0650	5001		3							0.03		0.01	0.73	0.76	--	0.13
06/06/74	5001		22	C	7.0	99	15AF					--	0.09	0.1		0.03
0600	5001		3							0.01		0.01	0.23	0.24	--	0.09
06/25/74	5001		22	C	8.1	96	15AF					--	--	0.4		0.03
0940	5001		3							0.00		0.00	0.56	0.56	--	0.12
07/09/74	5001		22	C	7.3	122	16AF					--	0.08	0.1		0.04
0820	5001		3							0.02		0.02	0.24	0.26	--	0.11
07/23/74	5001		25	C	7.5	132	13AF		58			--	--	0.2		0.03
0825	5001		3						0	0.00		0.00	0.78	0.78	--	0.11



TABLE D-6 (CONTINUED)

DATE TIME	SAMP LAB	G.M. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	EC	NUTRIENT ANALYSIS OF SURFACE WATER				NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER				F TOT P U TOT P			
						TURB F-CO2	CAC03 P CAC03 T	HC03 CO3	NH3	NO2 NO3	F ORG N U ORG N	F (NH3 + U ORG N)	DIS A.M.P04		F H3P04 U H3P04		
89 D 808.5 128.0 SYCAMORE SLOUGH NEAR MOUTH						CONTINUED											
08/07/74 0800	5001 5001		24 3	C	7.5	140	12AF		80 0		-- 0.02	0.18 0.10	0.2 0.42	0.4 0.44	--	0.04 --	-- 0.11
08/23/74 1015	5001 5001		23 3	C	7.7	133	10AF		56 0		-- 0.02	-- 0.01	-- --	0.0 --	--	0.03 --	-- 0.12
09/04/74 0640	5001 5001		22 3	C	7.7	129	11AF		58 0		-- 0.01	-- 0.01	0.29 0.55	0.3 0.56	--	0.03 --	-- 0.10
09/19/74 0755	5001 5001		21 3	C	7.7	171	10AF		58 0		-- 0.01	-- 0.00	0.19 0.37	0.2 0.38	--	0.03 --	-- 0.10
89 D 808.7 133.4 MOKELENE RIVER, NORTH FORK, AT BROAD SLOUGH																	
03/26/74 0945	5001 5001		13 3	C	7.5	107	16AF				-- 0.03	0.17 0.07	0.2 0.23	0.2 0.26	--	0.02 --	-- 0.06
04/10/74 0755	5001 5001		13 3	C	7.1	88	12AF				-- 0.04	0.16 0.05	0.2 0.20	0.2 0.24	--	0.02 --	-- 0.05
04/24/74 0715	5001 5001		14 3	C	7.1	110	22AF				-- 0.03	0.07 0.09	0.1 0.15	0.1 0.18	--	0.03 --	-- 0.06
05/08/74 0635	5001 5001		17 3	C	7.4	132	14AF				-- 0.08	0.12 0.13	0.2 0.18	0.2 0.26	--	0.05 --	-- 0.09
05/23/74 0740	5001 5001		16 3	C	7.3	126	18AF				-- 0.07	0.43 0.11	0.5 0.49	0.5 0.56	--	0.05 --	-- 0.09
06/06/74 0650	5001 5001		20 3	C	7.3	132	16AF				-- 0.05	0.05 0.08	0.1 0.09	0.1 0.14	--	0.05 --	-- 0.09
06/25/74 1035	5001 5001		20 3	C	7.7	127	15AF				-- 0.06	-- 0.12	-- --	0.0 --	--	0.06 --	-- 0.10
07/09/74 0910	5001 5001		21 3	C	7.6	123	17AF				-- 0.06	0.14 0.11	0.2 0.20	0.2 0.26	--	0.07 --	-- 0.11
07/23/74 0920	5001 5001		23 3	C	7.6	126	15AF		58 0		-- 0.06	0.1 0.10	0.04 0.28	0.1 0.34	--	0.06 --	-- 0.10
08/07/74 0905	5001 5001		23 3	C	7.5	130	15AF		58 0		-- 0.06	-- 0.10	0.34 0.42	0.4 0.48	--	0.05 --	-- 0.11
08/23/74 1110	5001 5001		21 3	C	7.6	131	12AF		62 0		-- 0.08	-- 0.09	-- --	0.0 --	--	0.04 --	-- 0.11
09/04/74 0800	5001 5001		20 3	C	8.0	153	13AF		62 0		-- 0.10	-- 0.12	0.30 0.34	0.4 0.44	--	0.06 --	-- 0.11
09/19/74 0855	5001 5001		19 3	C	7.6	167	13AF		66 0		-- 0.08	-- 0.09	0.12 0.18	0.2 0.26	--	0.04 --	-- 0.08
89 D 808.8 125.8 SYCAMORE SLOUGH AT DRAIN																	
10/16/73 1450	5001 5001		19 2	C	7.5 7.6	245 231	15AF		84 0		-- 2.40	1.10 0.20	3.5 2.12	4.52	--	0.93 --	-- 1.40
12/12/73 1430	5001 5001		8 3	C	7.3 7.3	930 810	46AF		286 0		-- 18.00	-- 0.13	3.00 5.30	21.0 23.30	--	5.50 --	-- 8.20
01/10/74 1450	5001 5001		6 2	C		1140 1090	65AF		531 0		-- 16.00	-- 0.10	6.00 9.20	22.0 25.20	--	5.10 --	-- 7.20
02/07/74 1400	5001 5001		9 2	C	7.4 7.6	1065 1020	50AF		466 0		-- 15.20	-- 0.12	0.80 4.60	16.0 19.80	--	3.30 --	-- 7.60
89 D 809.0 135.8 GEORGIANA SLOUGH NEAR ISLETON																	
03/26/74 1020	5001 5001		12 3	C	7.6	103	25AF				-- 0.04	0.16 0.10	0.2 0.20	0.2 0.24	--	0.04 --	-- 0.08
04/10/74 0830	5001 5001		12 3	C	7.2	86	37AF				-- 0.05	-- 0.09	0.15 0.21	0.2 0.26	--	0.03 --	-- 0.09
04/24/74 0745	5001 5001		13 3	C	7.1	109	28AF				-- 0.04	-- 0.10	0.16 0.26	0.2 0.30	--	0.04 --	-- 0.10
05/08/74 0705	5001 5001		17 3	C	7.4	129	13AF				-- 0.09	0.11 0.14	0.2 0.17	0.2 0.26	--	0.06 --	-- 0.09
05/23/74 0805	5001 5001		16 3	C	7.4	127	17AF				-- 0.06	-- 0.11	0.34 0.38	0.4 0.44	--	0.05 --	-- 0.08
06/06/74 0720	5001 5001		20 3	C	7.3	132	12AF				-- 0.05	-- 0.11	0.05 0.07	0.1 0.12	--	0.05 --	-- 0.07
06/25/74 1110	5001 5001		20 3	C	7.7	130	13AF				-- 0.06	-- 0.12	-- --	0.0 --	--	0.06 --	-- 0.10
07/09/74 0940	5001 5001		21 3	C	7.8	127	13AF				-- 0.07	-- 0.16	0.03 0.23	0.1 0.30	--	0.07 --	-- 0.10
07/23/74 0950	5001 5001		23 3	C	7.6	128	12AF		58 0		-- 0.05	-- 0.10	-- --	0.0 --	--	0.05 --	-- 0.09
08/07/74 0930	5001 5001		23 3	C	7.5	131	12AF		58 0		-- 0.06	-- 0.10	0.34 0.44	0.4 0.50	--	0.06 --	-- 0.12
08/23/74 1135	5001 5001		21 3	C	7.6	140	14AF		62 0		-- 0.10	-- 0.09	-- --	0.0 --	--	0.05 --	-- 0.11
09/04/74 0825	5001 5001		20 3	C	8.0	157	14AF		72 0		-- 0.09	-- 0.12	0.21 0.25	0.3 0.34	--	0.06 --	-- 0.11
09/19/74 0925	5001 5001		19 3	C	7.6	174	11AF		68 0		-- 0.09	-- 0.09	0.11 0.17	0.2 0.26	--	0.05 --	-- 0.08

TABLE D-6 (CONTINUED)

NUTRIENT ANALYSIS OF SURFACE WATER																		NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER			
DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY		TURB F-CO2	FIELD ANALYSIS OF SURFACE WATER			NO2 NO3	F U	OR OR	N N	F (NH3 + N ORG N)	DIS A.H.P.O4	F H3PO4 U H3PO4	F TOT P U TOT P				
				PH	EC		CAC03 P	CAC03 T	NH3												
89 D 809.4 141.0 SACRAMENTO RIVER BELOW RIO VISTA BRIDGE																					
10/04/73 1150	5001 5001		18.0C 3	7.7 8.1	156 164	11AF		70 0	0.09	-- 0.17	0.21 0.27	0.3 0.36			--	0.07 --	-- 0.11				
11/01/73 1005	5001 5001		15.0C 3	7.4 8.0	144 148	11AF		64 0	0.11	-- 0.22	0.19 0.23	0.3 0.34			--	0.06 --	-- 0.13				
12/06/73 1340	5001 5001		10.0C 3	7.0 7.9	105 108	56AF		50 0	0.04	-- 0.18	0.26 0.36	0.30 0.40			--	0.05 --	-- 0.13				
01/17/74 1320	5001 5001		9.0C 3	7.5 7.7	118 123	32AF		54 0	0.04	-- 0.18	0.46 0.52	0.5 0.56			--	0.03 --	-- 0.11				
02/14/74 1055	5001 5001		9.0C 3	7.6 7.7	148 160	50AF		74 0	0.05	-- 0.23	0.25 0.33	0.3 0.38			--	0.04 --	-- 0.11				
03/21/74 1530	5001 5001		13.0C 3	7.8	115	35AF			0.05	-- 0.12	0.25 0.35	0.3 0.40			--	0.03 --	-- 0.10				
04/02/74 1250	5001 5001		11 C 3	7.6	150	272AF			0.04	-- 0.09	0.16 0.68	0.2 0.72			--	0.03 --	-- 0.33				
04/17/74 1310	5001 5001		14 C 3	7.5	117	31AF			0.05	-- 0.11	0.25 0.31	0.3 0.36			--	0.03 --	-- 0.08				
04/30/74 1150	5001 5001		15 C 3	7.5	160	22AF			0.06	-- 0.15	0.14 0.18	0.2 0.24			--	0.04 --	-- 0.08				
05/14/74 1045	5001 5001		17 C 3	7.3	120	25AF			0.06	-- 0.12	0.14 0.20	0.2 0.26			--	0.04 --	-- 0.08				
06/12/74 1010	5001 5001		20 C 3	8.0	127	15AF			0.03	-- 0.13	0.27 0.33	0.3 0.36			--	0.06 --	-- 0.08				
06/26/74 1010	5001 5001		20 C 3	7.9	138	15AF			0.04	-- 0.16	0.16 0.22	0.2 0.26			--	0.06 --	-- 0.09				
07/10/74 0830	5001 5001		21 C 3	7.8	134	16AF			0.04	-- 0.14	0.16 0.20	0.2 0.24			--	0.06 --	-- 0.11				
07/24/74 0905	5001 5001		24 C 3	7.7	136	14AF		58 0	0.04	-- 0.19	0.26 0.32	0.3 0.36			--	0.07 --	-- 0.08				
08/13/74 1410	5001 5001		21 C 3	7.9	138	11AF		62 0	0.03	-- 0.10	0.17 0.27	0.2 0.30			--	0.05 --	-- 0.14				
08/27/74 1415	5001 5001		21 C 3	7.7	144	10AF		66 0	0.03	-- 0.10	0.07 --	0.1 --			--	0.05 --	-- 0.10				
09/12/74 1425	5001 5001		21 C 3	7.8	161	12AF		70 0	0.06	-- 0.10	0.14 0.20	0.2 0.26			--	0.05 --	-- 0.10				
09/24/74 1235	5001 5001		20 C 3	7.7	140	9AF		64 0	0.07	-- 0.12	0.13 0.15	0.2 0.22			--	0.05 --	-- 0.10				
89 D 810.1 127.9 HOG SLOUGH NEAR THORNTON																					
10/16/73 1410	5001 5001		19 C 3	7.9 7.7	500 488	10AF		94 0	0.04	-- 0.39	0.36 0.54	0.4 0.58			--	0.04 --	-- 0.08				
12/12/73 1345	5001 5001		8 C 3	7.6 7.9	1050 1000	10AF		207 0	0.10	-- 0.40	0.60 0.66	0.7 0.76			--	0.09 --	-- 0.14				
01/10/74 1410	5001 5001		6 C 3	8.2	940 883	11AF		212 0	0.11	-- 0.45	0.49 0.55	0.6 0.66			--	0.09 --	-- 0.12				
02/07/74 1315	5001 5001		9 C 3	8.0 8.5	1050 954	11AF		222 5	0.05	-- 0.41	0.35 0.49	0.4 0.54			--	0.05 --	-- 0.14				
89 D 812.3 126.8 BEAVER SLOUGH NEAR THORNTON																					
10/16/73 1320	5001 5001		19 C 3	7.4 7.6	175 155	7AF		50 0	2.10	-- 0.06	0.7 1.22	2.8 3.32			--	0.67 --	-- 0.95				
12/12/73 1305	5001 5001		8 C 3	7.2 7.8	428 382	12AF		104 0	5.40	-- 0.15	1.1 1.48	6.5 6.88			--	1.25 --	-- 1.60				
01/10/74 1315	5001 5001		7 C 3	7.2	685 636	15AF		194 0	6.20	-- 0.32	2.60 1.98	7.8 8.18			--	1.20 --	-- 1.60				
02/07/74 1215	5001 5001		9 C 3	7.6 7.8	725 628	14AF		200 0	6.10	-- 0.22	0.10 0.72	6.2 6.82			--	1.15 --	-- 1.78				
89 D 814.5 133.2 SACRAMENTO RIVER NEAR RYDE																					
03/26/74 0805	5001 5001		12 C 3	7.3	106	25AF		52 0	0.03	-- 0.10	0.17 0.23	0.2 0.26			--	0.04 --	-- 0.08				
04/10/74 0745	5001 5001		12 C 3	7.3	67	35AF		46 0	0.04	-- 0.07	0.26 0.32	0.3 0.36			--	0.03 --	-- 0.10				
04/25/74 0745	5001 5001		12 C 3	7.5	122	32AF		56 0	0.05	-- 0.12	0.15 0.23	0.2 0.28			--	0.04 --	-- 0.10				
05/09/74 0800	5001 5001		17 C 3	7.6	121	16AF		56 0	0.08	-- 0.15	0.22 0.28	0.3 0.36			--	0.05 --	-- 0.09				
05/23/74 0650	5001 5001		16 C 3	7.2	128	18AF		54 0	0.05	-- 0.11	0.05 0.11	0.1 0.16			--	0.05 --	-- 0.08				
06/06/74 0645	5001 5001		20 C 3	6.9	125	15AF		54 0	0.02	-- 0.08	0.08 0.12	0.1 0.14			--	0.04 --	-- 0.08				
06/25/74 0940	5001 5001		19 C 3	6.9	125	9AF		56 0	0.04	-- 0.16	0.16 0.68	0.2 0.72			--	0.05 --	-- 0.08				
07/09/74 0840	5001 5001		20 C 3	7.9	118	11AF		60 0	0.13	-- 0.13	0.17 0.19	0.3 0.32			--	0.09 --	-- 0.11				
07/23/74 0855	5001 5001		22 C 3	7.6	110	13AF		54 0	0.07	-- 0.10	0.33 0.71	0.4 0.78			--	0.06 --	-- 0.09				

TABLE D-6 (CONTINUED)

TABLE D-1 (CONTINUED)																				
NUTRIENT ANALYSIS OF SURFACE WATER											NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER									
DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY		TURB F-C02	CAC03 CAC03 T	HC03 C03	NH3	NO2 NO3	F ORG N U ORG N	F (NH3 + U ORG N)	DIS A.H.P04	F H3PO4 U H3PO4	F TOT P U TOT P					
				PH	EC															
89 D 814.5 133.2 SACRAMENTO RIVER NEAR RYDE											CONTINUED									
08/07/74 0900	5001 5001		22 3	C	7.4	126	11AF	64 0	0.10	0.10	0.70 0.76	0.8 0.86	--	0.07 --	-- 0.10					
08/23/74 1035	5001 5001		22.0 3	C	7.4	140	11AF	60 0	0.10	0.09	0.10 0.12	0.2 0.22	--	0.05 --	-- 0.11					
09/05/74 0835	5001 5001		20 3	C	7.4	156	17AF	68 0	0.08	0.10	0.42 0.46	0.5 0.54	--	0.05 --	-- 0.11					
09/19/74 0615	5001 5001		19 3	C	7.5	131	10AF	64 0	0.08	0.09	0.42 0.50	0.5 0.58	--	0.05 --	-- 0.07					
89 D 815.3 126.3 MOKELUMNE RIVER NEAR THORNTON																				
10/16/73 1140	5001 5001		15 3	C	7.3 7.4	51 58	3AF	23 0	0.03	-- 0.07	0.37 0.39	0.4 0.42	--	0.00 --	-- 0.02					
12/12/73 1025	5001 5001		8 3	C	6.9 7.7	58 83	6AF	34 0	0.03	-- 0.08	0.27 0.31	0.3 0.34	--	0.03 --	-- 0.06					
01/10/74 1100	5001 5001		6 3	C	7.8	57 92	14AF	39 0	0.05	-- 0.19	0.25 0.27	0.3 0.32	--	0.05 --	-- 0.08					
02/07/74 0915	5001 5001		7 3	C	6.8 8.0	100 93	23AF	41 0	0.05	-- 0.13	0.25 0.29	0.3 0.34	--	0.02 --	-- 0.08					
03/25/74 1435	5001 5001		13 3	C	7.3	102	14AF	46 0	0.01	-- 0.05	0.19 0.27	0.2 0.28	--	0.02 --	-- 0.05					
04/09/74 0705	5001 5001		11 3	C	6.7	47	8AF	28 0	0.03	-- 0.04	0.27 0.33	0.3 0.36	--	0.02 --	-- 0.03					
04/24/74 0610	5001 5001		11 3	C	7.1	45	5AF	26 0	0.00	-- 0.02	-- 0.26	0.2 0.26	--	0.01 --	-- 0.04					
05/08/74 0600	5001 5001		18 3	C	6.8	62	10AF	32 0	0.03	-- 0.03	0.17 0.19	0.2 0.22	--	0.02 --	-- 0.04					
05/22/74 0510	5001 5001		14 3	C	6.8	38	3AF	20 0	0.02	-- 0.02	0.28 0.30	0.3 0.32	--	0.01 --	-- 0.02					
06/05/74 0505	5001 5001		15 3	C	6.7	38	4AF	20 0	0.01	-- 0.08	-- --	0.0 --	--	0.01 --	-- 0.02					
06/24/74 0815	5001 5001		20 3	C	7.1	56	7AF	36 0	0.02	-- 0.03	0.08 0.10	0.1 0.12	--	0.01 --	-- 0.04					
07/08/74 0745	5001 5001		20 3	C	6.2	45	4AF	18 0	0.08	-- 0.03	2.12 --	2.2 --	--	0.01 --	-- 0.03					
07/22/74 0755	5001 5001		25 3	C	6.9	52	5AF		0.02	-- 0.02	0.18 0.44	0.2 0.46	--	0.02 --	-- 0.05					
08/06/74 0715	5001 5001		22 3	C	6.2	50	7AF	18 0	0.03	-- 0.03	0.67 0.71	0.7 0.74	--	0.02 --	-- 0.04					
08/22/74 0910	5001 5001		23.0 3	C	6.9	49	7AF	24 0	0.05	-- 0.01	0.75 0.77	0.8 0.82	--	0.02 --	-- 0.05					
09/04/74 0710	5001 5001		20 3	C	7.0	46	5AF	24 0	0.01	-- 0.04	0.29 0.35	0.3 0.36	--	0.01 --	-- 0.04					
09/18/74 0700	5001 5001		19 3	C	6.9	43	3AF	18 0	0.01	-- 0.02	0.29 0.31	0.3 0.32	--	0.01 --	-- 0.04					
89 D 819.1 130.1 SNODGRASS SLOUGH AT SOUTHERN PACIFIC RR BRIDGE																				
10/16/73 1100	5001 5001		18 3	C	7.5 7.6	245 245	15AF	109 0	0.02	-- 0.06	0.28 0.38	0.3 0.40	--	0.05 --	-- 0.11					
12/12/73 0935	5001 5001		8 3	C	7.0 8.0	405 393	14AF	140 0	0.10	-- 0.60	0.70 0.76	0.8 0.86	--	0.20 --	-- 0.30					
01/10/74 1015	5001 5001		5 3	C	7.8	270 272	32AF	94 0	0.10	-- 0.78	0.90 0.94	1.0 1.04	--	0.30 --	-- 0.39					
02/07/74 0825	5001 5001		7 3	C	7.5 8.3	390 384	21AF	147 0	0.06	-- 0.65	0.74 0.86	0.8 0.92	--	0.24 --	-- 0.41					
89 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING																				
10/07/73 1230	5050 5000		62 2	F	7.4 7.8	118 131	6A	65 0	--	-- 0.15	-- --	-- --	--	-- --	-- 0.16					
10/16/73 1010	5001 5001		16 3	C	7.8 7.9	147 147	7AF	64 0	0.17	-- 0.10	-- 0.29	0.4 0.46	--	0.08 --	-- 0.12					
11/14/73 1330	5050 5000		56 2	F	7.2	89		41 0	--	-- 0.33	-- --	-- --	--	-- --	-- 0.24					
12/12/73 0900	5001 5001		8 3	C	7.6 7.9	125 119	24AF	57 0	0.05	-- 0.13	-- 0.19	0.2 0.24	--	0.04 --	-- 0.11					
12/19/73 1215	5050 5000		48	F	7.2	122	20A 6	60 0	--	-- 0.26	-- --	-- --	--	-- --	-- 0.05					
01/10/74 0920	5001 5001		5 3	C	8.0	111 120	28AF	56 0	0.04	-- 0.15	0.16 0.20	0.2 0.24	--	0.04 --	-- 0.07					
01/16/74 1040	5050 5000		4A	F	7.2	105	5	51 0	--	-- 0.14	-- --	-- --	--	-- --	-- 0.09					
02/07/74 0725	5001 5001		7 3	C	7.3 8.1	123 117	65AF	55 0	0.05	-- 8.60	0.45 0.53	0.5 0.58	--	0.04 --	-- 0.13					
02/20/74 0900	5050 5000		48	F	7.3	119	50A 5	59 0	--	-- 0.33	-- --	-- --	--	-- --	-- 0.12					
03/20/74 1130	5050 5000		54	F	7.3	103	30A 4	52 0	--	-- 0.20	-- --	-- --	--	-- --	-- 0.08					



TABLE D-6 (CONTINUED)  
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. DISCH.	TEMP DEPTH	FIELD LABORATORY PH	TURB EC	CAC03 P	MC03 T	NH3	NUTRIENT NO2	F ORB U	N H	F (NH3 + U ORB N	DIS A.M.P04	F H3P04 U H3P04	F TOT P U TOT P
07 L 900.4 956.9 LAKE TAMOE AT ZEPHYR COVE PIER (S-8)															
05/08/74 1130	5050 5050		11.4C	7.5	89 86	0.44A			0.0001 0.007	--	--	0.13 0.136	--	0.0042 --	-- 0.011
08/14/74 1115	5050 5050		19.1C	7.8	90 90	0.26A		0.006	0.0000 0.000	--	--	0.02 0.026	--	0.003 --	-- 0.006
07 L 900.9 006.8 2 LAKE TAMOE AT RUBICON BAY PIER (S-2)															
05/08/74 0835	5050 5050		8.0C	7.5	91 92	0.22A			0.0001 0.009	--	--	0.11 0.122	--	0.0059 --	-- 0.008
08/14/74 0855	5050 5050		18.3C	8.0	93 92	0.18A		0.037	0.0002 0.001	--	--	0.00 0.037	--	0.003 --	-- 0.004
07 L 902.3 007.2 LAKE TAMOE AT WEEKS BAY RESORT PIER (S-12)															
05/08/74 0725	5050 5050		7.6C	7.3	93 89	0.25A			0.0002 0.010	--	--	0.05 0.07	--	0.0056 --	-- 0.006
08/14/74 0810	5050 5050		17.8C	7.8	85 91	0.21A		0.022	0.0000 0.002	--	--	0.08 0.102	--	0.003 --	-- 0.007
07 L 905.3 956.4 LAKE TAMOE AT GLENBROOK BAY PIER (S-3)															
05/08/74 1050	5050 5050		9.9C	7.5	88 93	0.27A			0.0001 0.012	--	--	0.05 0.066	--	0.0052 --	-- 0.006
08/14/74 1035	5050 5050		18.0C	7.8	90 92	0.28A		0.014	0.0000 0.002	--	--	0.02 0.034	--	0.003 --	-- 0.004
07 L 907.8 009.2 LAKE TAMOE AT WARD CREEK PIER (S-11)															
05/08/74 0705	5050 5050		6.8C	7.4	90 90	0.27A			0.0001 0.012	--	--	-- 0.096	--	0.0039 --	-- 0.005
08/14/74 0650	5050 5050		16.6C	8.0	85 91	0.23A		0.010	0.0000 0.000	--	--	0.04 0.05	--	0.004 --	-- 0.010
07 L 908.7 000.3 LAKE TAMOE - NORTH CENTER (C-2)															
05/08/74 0755	5050 5050		9.0C	7.5	98 95	0.22A			0.0002 0.008	--	--	0.03 0.075	--	0.0048 --	-- 0.006
08/14/74 0745	5050 5050		17.8C	7.9	91 92	0.12A		0.010	0.0003 0.006	--	--	0.02 0.03	--	0.001 --	-- 0.010
07 L 910.8 007.1 2 LAKE TAMOE AT US COAST GUARD PIER (S-5)															
05/08/74 0755	5050 5050		8.18	7.8C	7.5	89 84	0.98A		0.0000 0.008	--	--	-- 0.081	--	0.0067 --	-- 0.011
08/14/74 0740	5050 5050		16.4C	8.1	85 92	0.37A		0.015	0.0000 0.002	--	--	0.03 0.045	--	0.002 --	-- 0.010
07 L 913.5 004.9 LAKE TAMOE AT CARNELIAN BAY - SIERRA BOAT CO (S-14)															
05/08/74 0835	5050 5050		9.0C	7.5	90 93	0.23A			0.0001 0.010	--	--	-- 0.01	--	0.0046 --	-- 0.008
08/14/74 0815	5050 5050		17.6C	7.9	89 90	0.17A		0.010	0.0002 0.001	--	--	-- 0.04	--	0.003 --	-- 0.006
07 L 914.2 002.3 LAKE TAMOE AT KINGS BEACH PIER (S-7)															
05/08/74 0905	5050 5050		8.4C	7.5	88 91	0.29A			0.0006 0.008	--	--	-- 0.131	--	0.0032 --	-- 0.007
08/14/74 0900	5050 5050		17.6C	7.8	90 92	0.26A		0.010	0.0000 0.002	--	--	-- 0.04	--	0.003 --	-- 0.007
07 L 914.2 956.6 LAKE TAMOE AT KINGS CASTLE PIER (S-4)															
05/08/74 1005	5050 5050		12.1C	7.5	90 93	0.26A			0.0001 0.008	--	--	-- 0.03	--	0.0037 --	-- 0.008
08/14/74 0940	5050 5050		18.7C	8.0	90 92	0.28A		0.002	0.0000 0.001	--	--	-- 0.03	--	0.003 --	-- 0.006
07 3020.01 BURTON CREEK IN STAR HARBOR (T-8)															
05/01/74 1020	5050 5050	26 E	3.6C	7.3	44 48	2.8A			0.0000 0.006	--	--	-- 0.115	--	0.0139 --	-- 0.032
08/07/74 1030	5050 5050		17.1C	7.9	92 96	0.45A		0.007	0.0003 0.008	--	--	-- 0.02	--	0.007 --	-- 0.019
07 3050.01 WARD CREEK NEAR MOUTH (T-5)															
05/01/74 0925	5050 5050	140 E	2.9C	7.3	44 46	2.5A			0.0000 0.007	--	--	-- 0.12	--	0.0123 --	-- 0.029
08/07/74 0950	5050 5050	4.22 8 E	13.7C	7.9	56 58	2.0A		0.019	0.0001 0.002	--	--	-- 0.029	--	0.016 --	-- 0.047
07 3160.01 MADDOEN CREEK NEAR MOUTH (T-10)															
05/01/74 0850	5050 5050	1.16 20 E	3.0C	7.4	44 47	0.39A			0.0000 0.042	--	--	-- 0.08	--	0.0052 --	-- 0.014
08/07/74 0915	5050 5050	0.83 7 E	11.3C	7.6	44 45	0.34A		0.010	0.0009 0.015	--	--	-- 0.02	--	0.006 --	-- 0.018

NUTRIENT ANALYSIS OF SURFACE WATER

380

# TABLE D-7

## PESTICIDES IN SURFACE WATER

### Sampler and Lab Agency Codes

5001 - U. S. Bureau of Reclamation  
5050 - Department of Water Resources

### Abbreviations

TIME - Pacific Standard Time on a 24-hour clock  
TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)  
EC - Electrical conductance in micromhos at 25° Celsius  
DO - Dissolved oxygen content in milligrams per liter  
PH - Measure of acidity (<7) or alkalinity (>7) of water  
G.H. - Instantaneous gage height in feet above an established datum  
DEP - Depth in feet at which sample was collected  
DISCHARGE - Instantaneous discharge in cubic feet per second

### Pesticides

#### Chlorinated Hydrocarbons

<u>Code</u>	<u>Most Common Name</u>
ATRAZSIMAZ	- Atriazine and/or Simazine
CHLORDANE	- Chlordane
DACTHAL	- Dacthal, DCPA
UNKNOWN	- Complex chlorinated compound mixture as (Reported as DDT), one or more
NONE	
DETECTED	- No detectable amount of Chlorinated Hydrocarbons

#### Organic Phosphorus

DIAZINON	- Diazinon
UNKNOWN	- Complex mixture as Parathion (Reported as Parathion), one or more
NONE	
DETECTED	- No detectable amount of Organic Phosphorus

TABLE D-7 (CONTINUED)										
PESTICIDES IN SURFACE WATER										
COMPOUNDS REPORTED IN NANOGRAMS/LITER										
DATE TIME	SAMP LAB	TEMP EC	DO PH	G.H. DEP DISCHARGE	CHLORINATED HYDROCARBON			ORGANIC	PHOSPHORUS	OTHER
A0 V 836.3 128.4					NATOMAS EAST MAIN DRAIN AT SACRAMENTO					
06/19/74 0645	5050 5050	65 F	5.4 287	7.2	NONE DETECTED					
A0 V 836.4 131.4					NATOMAS MAIN DRAIN TO SACRAMENTO RIVER					
06/19/74 0720	5050 5050	64 F	5.4 511	7.4	20 UNKNOWN					
A0 V 847.4 135.8					R-D 1001 DRAINAGE TO NATOMAS CROSS CANAL					
06/19/74 0830	5050 5050	69 F	6.3 674	7.4	45 UNKNOWN					
A0 2170.00					SACRAMENTO RIVER AT FREMONT WEIR, WEST END					
10/17/73 1000	5050 5050	60 F	9.9 130	16.87 7.5	NONE DETECTED					
11/14/73 1100	5050 5050	55 F	9.1 105	33.03 7.2	80 UNKNOWN					
12/19/73 1030	5050 5050	49 F	10.6 132	31.45 7.2	25 UNKNOWN					
01/16/74 0830	5050 5050	48 F	11.2 139	34.87 7.2	65 CHLORDANE					
02/20/74 1030	5050 5050	47.5F 137	11.7 7.3	27.62	55 UNKNOWN					
03/20/74 1000	5050 5050	53 F	11.4 125	34.07 7.3	10 UNKNOWN					
04/17/74 1010	5050 5050	56 F	11.3 130	34.27 7.4	NONE DETECTED					
05/15/74 1000	5050 5050	61 F	23.42 137	7.3	45 UNKNOWN					
06/19/74 1100	5050 5050	65 F	8.7 136	19.08 7.4	NONE DETECTED					
07/17/74 1000	5050 5050	69 F	8.1 172	20.15 7.4	20 UNKNOWN					
08/21/74 0950	5050 5050	66 F	8.8 176	20.67 7.5	40 UNKNOWN					
09/18/74 1140	5050 5050	65 F	8.8 187	7.4	NONE DETECTED					
A0 2230.02					SACRAMENTO RIVER ABOVE COLUSA BASIN DRAIN					
04/24/74 1225	5050 5050	14.5C 10.0	28.09 8.2		NONE DETECTED		NONE DETECTED			
A0 2785.00					SACRAMENTO RIVER AT BEND BRIDGE					
05/21/74 0800	5050 5050	10.5C 10.3	21.63 7.4		85 UNKNOWN		NONE DETECTED			
A0 2905.00					YOLO BYPASS BELOW SACRAMENTO BYPASS					
06/19/74 1200	5050 5050	72 F	8.9 921	8.2	190 UNKNOWN					
A0 2933.00					R-D 108 DRAINAGE TO SACRAMENTO RIVER					
04/24/74 1335	5050 5050	15.0C 10.1	8.1		NONE DETECTED		60 UNKNOWN			
A0 2947.10					COLUSA BASIN DRAIN NEAR KNIGHTS LANDING					
04/24/74 1310	5050 5050	15.5C 10.1	8.1		NONE DETECTED		NONE DETECTED			
A0 2972.00					BUTTE SLOUGH NEAR MERIDIAN					
04/24/74 1100	5050 5050	14.0C 9.1	46.10 7.2		NONE DETECTED		NONE DETECTED			
A0 2976.00					COLUSA BASIN DRAIN AT HIGHWAY 20					
04/24/74 0920	5050 5050	13.5C 9.9	38.85 7.6		NONE DETECTED		NONE DETECTED			
A0 5103.00					FEATHER RIVER AT NICOLAUS					
06/19/74 0900	5050 5050	65 F	8.9 65	24.06 7.2	NONE DETECTED					
A1 1680.00					PIT RIVER NEAR CANBY					
05/08/74 1335	5050 5050	18.5C 8.8	3.68 7.6		60 UNKNOWN		NONE DETECTED			
A3 1250.00					STONY CREEK NEAR FRUTO					
04/22/74 1110	5050 5050	15.5C 10.6	8.0		NONE DETECTED		NONE DETECTED			
A8 1250.00					BEAR CREEK NEAR RUMSEY					
04/04/74 0935	5050 5050	11.0C 11.6	2.56 8.2		NONE DETECTED		NONE DETECTED			



TABLE D-7 (CONTINUED)  
PESTICIDES IN SURFACE WATER  
COMPOUNDS REPORTED IN NANOGRAMS/LITER  
CHLORINATED HYDROCARBON ORGANIC PHOSPHORUS OTHER

DATE TIME	SAMP LAB	TEMP EC	DO PH	G.H. DEP DISCHARGE	CHLORINATED HYDROCARBON	ORGANIC PHOSPHORUS	OTHER
A8 1350.00 CACHE CREEK NEAR LOWER LAKE							
04/04/74 0750	5050 5050	11.0C 7.4	11.4 7.4		NONE DETECTED	NONE DETECTED	
B0 7020.00 SAN JOAQUIN RIVER NEAR VERNALIS							
01/09/74 1540	5001 5050	7 C 250	9.8 7.1	3	NONE DETECTED		
05/08/74 1030	5001 5050	20 C 495	8.5 7.7	1	60 UNKNOWNNS		
05/24/74 0800	5050 5050	20 C 500	6.5 7.6	12.40	140 DACTHAL	10 DIAZINON	
08/22/74 0750	5050 5050	23 C 600	7.4 7.2	10.95	90 UNKNOWNNS	NONE DETECTED	
09/04/74 1125	5001 5050	22 C 550	7.3 7.6	1	90 ATRAZSIMAZ	85 UNKNOWNNS	
B9 D 747.2 118.4 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE							
10/03/73 0810	5050 5050	65 F 670	6.7 7.3	1.07	NONE DETECTED		
11/29/73 1240	5050 5050	51 F 480	9.7 7.2	3.31	5 UNKNOWNNS		
12/13/73 1130	5050 5050	49 F 495	9.7 7.2	4.00	35 UNKNOWNNS		
01/30/74 1400	5050 5050	48 F 290	10.9 7.3		NONE DETECTED		
02/22/74 1100	5050 5050	50 F 500	10.6 7.3	3.05	30 DACTHAL		
03/22/74 0900	5050 5050	57.5F 562	10.1 7.3		25 DACTHAL	10 UNKNOWNNS	
04/19/74 1200	5050 5050	58 F 383	10.2 7.4		NONE DETECTED		
05/21/74 1100	5050 5050	62 F 347	10.0 7.3	4.13	35 DACTHAL		
06/17/74 1100	5050 5050	69 F 288	8.6 7.4	3.60	10 UNKNOWNNS		
07/26/74 1030	5050 5050	83 F 825	9.5 8.0	1.16	40 UNKNOWNNS		
08/24/74 1230	5050 5050	76 F 653	9.5 8.0		95 UNKNOWNNS		
09/05/74 0930	5050 5050	75 F 568	8.6 7.9	2.98	90 UNKNOWNNS		
B9 D 749.8 133.2 WEST CANAL AT MOUTH OF INTAKE TO CLIFTON CT FOREBAY							
01/09/74 1425	5001 5050	7 C 340	9.3 7.2	3	NONE DETECTED		
05/09/74 1130	5001 5050	20 C 365	7.4 7.8	1	NONE DETECTED		
09/05/74 1140	5001 5050	23 C 243	7.5 7.7	1	NONE DETECTED		
B9 D 753.5 129.3 MIDDLE RIVER AT BORDEN HIGHWAY							
01/09/74 1230	5001 5050	6 C 365	9.1 7.2		NONE DETECTED		
B9 D 758.7 122.9 SAN JOAQUIN RIVER AT BUCKLEY COVE							
01/09/74 1135	5001 5050	7 C 249	9.6 7.2	2	NONE DETECTED		
05/09/74 0750	5001 5050	19 C 430	7.6 7.5	1	NONE DETECTED		
09/06/74 1245	5001 5050	26 C 554	6.7	1	190 ATRAZSIMAZ	90 UNKNOWNNS	
B9 D 801.1 142.6 BIG BREAK NEAR OAKLEY							
01/15/74 1110	5001 5050	8 C 234	10.4 7.4	3	110 UNKNOWNNS		
05/01/74 1350	5001 5050	10 C 165	9.9 8.1	1	NONE DETECTED		
09/11/74 1510	5001 5050	23 C 194	8.8 8.2	1	NONE DETECTED		
B9 D 801.2 148.5 SAN JOAQUIN RIVER AT ANTIOCH SHIP CHANNEL							
01/15/74 1010	5001 5050	8 C 191	9.7 7.5	3	100 UNKNOWNNS		
05/01/74 1320	5001 5050	17 C 169	9.5 7.6	1	NONE DETECTED		
09/11/74 1440	5001 5050	22 C 218	8.1 8.0	1	NONE DETECTED		

TABLE D-7 (CONTINUED)									
PESTICIDES IN SURFACE WATER									
COMPOUNDS REPORTED IN NANOGRAMS/LITER									
DATE	SAMP	TEMP	DO	G.M. DEP	CHLORINATED HYDROCARBON		ORGANIC PHOSPHORUS	OTHER	
TIME	LAB	EC	PH	DISCHARGE					
89 D 802.6 136.8 FRANKS TRACT NEAR RUSSOS LANDING									
01/15/74	5001	A	C	10.0	3	140	UNKNOWN		
1310	5050	292	7.4						
04/30/74	5001	1A	C	9.6	1	NONE	DETECTED		
1335	5050	162	7.7						
09/12/74	5001	23	C	9.0	1	NONE	DETECTED		
1610	5050	161	8.0						
89 D 803.1 141.3 SAN JOAQUIN RIVER AT JERSEY POINT									
01/15/74	5001	A	C	10.0	3	150	UNKNOWN		
1140	5050	234	7.4						
05/01/74	5001	17	C	9.8	1	NONE	DETECTED		
1410	5050	161	7.7						
09/12/74	5001	22	C	8.7	1	NONE	DETECTED		
1635	5050	180	8.0						
89 D 803.8 149.2 SACRAMENTO RIVER ABOVE POINT SACRAMENTO									
01/17/74	5001	9	C	10.3	3	30	UNKNOWN		
1145	5050	133	7.6						
04/30/74	5001	1A	C	9.2	1	NONE	DETECTED		
1035	5050	162	7.5						
09/12/74	5001	22	C	8.1	1	NONE	DETECTED		
1315	5050	208	7.9						
89 D 804.7 134.0 SAN JOAQUIN RIVER AT POTATO POINT									
01/15/74	5001	A	C	10.2	3	40	UNKNOWN		
1235	5050	179	7.5						
04/30/74	5001	1A	C	9.1	1	NONE	DETECTED		
1315	5050	145	7.3						
09/12/74	5001	22	C	8.3	1	NONE	DETECTED		
1550	5050	155	7.8						
89 D 805.1 144.3 SACRAMENTO RIVER AT EMMATON									
01/17/74	5001	10	C	10.5	3	25	UNKNOWN		
1245	5050	140	7.6						
04/30/74	5001	15	C	9.2	1	NONE	DETECTED		
1125	5050	145	7.5						
09/12/74	5001	21	C	8.5	1	NONE	DETECTED		
1400	5050	163	7.9						
89 D 809.4 141.0 SACRAMENTO RIVER BELOW RIO VISTA BRIDGE									
01/17/74	5001	9	C	10.7	3	45	UNKNOWN		
1320	5050	118	7.5						
04/30/74	5001	15	C	9.2	1	NONE	DETECTED		
1150	5050	160	7.5						
09/12/74	5001	21	C	8.3	1	NONE	DETECTED		
1425	5050	161	7.8						
89 D 815.3 126.3 MOKELUMNE RIVER NEAR THORNTON									
01/10/74	5001	A	C	10.3	3	60	UNKNOWN		
1100	5050	57							
05/08/74	5001	1A	C	8.5	1	NONE	DETECTED		
0900	5050	62	6.8						
09/04/74	5001	20	C	8.3	1	NONE	DETECTED		
0710	5050	46	7.0						
89 D 820.7 132.7 SACRAMENTO RIVER AT GREENES LANDING									
10/17/73	5050	62	F	9.7	1.5	NONE	DETECTED		
1230	5050	118	7.4						
11/14/73	5050	5A	F	9.0	1.5	50	UNKNOWN		
1330	5050	89	7.2						
12/19/73	5050	4A	F	10.8		45	UNKNOWN		
1215	5050	122	7.2						
01/10/74	5001	5	C	10.8	3	NONE	DETECTED		
0920	5050	111							
01/16/74	5050	4A	F	11.3		20	CHLORDANE	40	UNKNOWN
0940	5050	105	7.2						
02/20/74	5050	4A	F	11.4		50	UNKNOWN		
0900	5050	119	7.3						
03/20/74	5050	5A	F	11.5		10	UNKNOWN		
1130	5050	103	7.3						
04/17/74	5050	57	F	11.5		NONE	DETECTED		
1220	5050	106	7.3						
05/09/74	5001	17	C	7.0	1	100	UNKNOWN		
0650	5050	137	7.1						
05/15/74	5050	61	F			20	UNKNOWN		
1130	5050	106	7.2						
06/19/74	5050	67	F	8.7		NONE	DETECTED		
1300	5050	103	7.3						
07/17/74	5050	71	F	8.2		20	UNKNOWN		
1140	5050	133	7.3						

TABLE D-7 (CONTINUED)										
PESTICIDES IN SURFACE WATER										
COMPOUNDS REPORTED IN NANOGRAMS/LITER										
DATE TIME	SAMP LAB	TEMP DO		G.M. DEP DISCHARGE	CHLORINATED HYDROCARBON			ORGANIC PHOSPHORUS	OTHER	
		EC	PH							
09 0 020.7 132.7					SACRAMENTO RIVER AT GREENES LANDING				CONTINUED	
08/21/74	5050	68	F	8.5	50 UNKNOWNNS					
1030	5050	130		7.3						
09/05/74	5001	20	C	8.2	1	NONE	DETECTED			
0740	5050	159		7.4						
09/18/74	5050	68	F	8.5	NONE DETECTED					
1315	5050	146		7.2						
64 1590.01					SUSAN RIVER NEAR LITCHFIELD					
05/09/74	5050	13.0C		9.9	45 UNKNOWNNS				NONE	DETECTED
0755	5050			7.4						

TABLE D-8

## DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

AO 5165.00 FEATHER RIVER NEAR GRIDLEY  
(October 1, 1972, through September 30, 1973)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	63	60	58	56	49	48	NR	NR	46	45	48	45	48	46	57	54	NR	NR	75	71	70	66	66	63
2	63	59	56	54	48	47	NR	NR	45	44	48	47	48	47	56	53	NR	NR	74	70	69	67	66	62
3	63	60	55	53	48	47	NR	NR	45	44	48	46	49	47	57	54	NR	NR	73	69	70	67	64	62
4	63	59	54	53	47	47	NR	NR	46	44	47	45	50	49	57	54	NR	NR	73	68	72	68	63	61
5	63	60	53	52	48	47	NR	NR	45	44	47	46	50	49	58	55	NR	NR	73	69	71	69	63	61
6	61	59	52	52	48	47	NR	NR	45	44	47	46	51	49	60	56	NR	NR	71	67	69	67	63	61
7	60	59	54	52	48	48	NR	NR	46	44	46	45	51	49	61	57	NR	NR	71	67	69	66	63	61
8	59	58	56	53	48	47	NR	NR	46	44	46	45	51	49	61	57	NR	NR	68	65	68	65	62	60
9	60	57	55	54	47	47	NR	NR	47	45	47	46	50	49	60	57	NR	NR	66	64	67	65	64	61
10	60	57	56	55	47	47	NR	NR	47	45	47	46	51	49	61	58	NR	NR	65	63	68	64	62	60
11	60	57	56	56	48	47	NR	NR	47	46	47	46	52	50	61	57	NR	NR	66	63	68	64	62	60
12	60	57	56	53	47	47	45	44	46	46	48	47	53	51	60	58	NR	NR	66	63	67	65	62	59
13	61	58	53	51	48	47	46	45	47	46	49	48	53	51	59	55	NR	NR	67	64	66	64	62	60
14	61	59	51	50	48	47	46	46	47	46	49	48	53	51	58	55	NR	NR	68	65	67	64	62	60
15	61	59	51	50	48	47	47	46	47	46	49	48	54	51	57	54	NR	NR	68	65	66	64	62	59
16	62	59	51	51	47	47	46	45	48	46	49	48	54	51	57	54	NR	NR	67	65	67	64	62	60
17	62	60	51	50	48	47	46	45	48	46	49	48	53	51	55	53	NR	NR	67	64	67	64	61	59
18	63	60	51	50	49	47	46	45	48	46	50	48	52	50	56	51	NR	NR	68	65	67	64	61	59
19	61	60	51	49	49	48	46	45	49	46	50	49	52	50	NR	NR	NR	NR	69	65	67	64	61	59
20	62	59	50	50	48	47	46	45	48	46	51	49	52	51	NR	NR	NR	NR	69	66	65	63	61	60
21	61	60	50	50	48	47	46	45	46	45	51	49	54	52	NR	NR	NR	NR	71	67	66	62	62	60
22	61	59	50	50	48	47	46	45	47	45	51	49	55	52	NR	NR	69	65	70	68	66	63	62	60
23	60	58	50	50	48	47	46	45	47	45	49	48	52	50	NR	NR	69	65	70	67	67	64	61	60
24	60	58	50	50	NR	NR	46	45	47	46	50	49	51	50	NR	NR	71	66	69	66	68	65	62	59
25	60	58	50	49	NR	NR	46	45	47	46	49	49	52	51	NR	NR	70	65	69	67	68	66	60	58
26	60	57	50	49	NR	NR	46	45	47	46	49	49	53	51	NR	NR	71	66	70	67	69	66	60	58
27	60	57	50	49	NR	NR	46	45	46	45	50	49	54	53	NR	NR	71	66	70	67	66	64	61	58
28	60	57	50	49	NR	NR	46	45	46	45	50	49	56	49	NR	NR	73	67	72	68	65	63	61	59
29	58	55	50	49	NR	NR	45	45	49	47	49	47	58	56	NR	NR	74	68	71	68	65	62	61	59
30	57	55	49	49	NR	NR	45	45	48	47	48	47	58	55	NR	NR	74	68	69	67	64	62	62	60
31	58	56			NR	NR	45	45	48	47	48	47					68	66	66	62	66	62		
Max	63		58		NR		NR		49		51		58		NR		NR		75		72		66	
Min	55		49		NR		NR		44		45		46		NR		NR		63		62		58	
Avg	60		52		NR		NR		46		48		51		NR		NR		68		66		61	

AO 5975.00 THERMALITO AFTERBAY RELEASE TO FEATHER RIVER NEAR OROVILLE  
(October 1, 1973, through September 30, 1974)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	64	63	58	57	50	49	46	45	46	45	47	46	49	47	57	56	65	62	77	74	70	67	66	63
2	65	63	58	57	49	47	45	43	46	45	47	47	49	48	56	55	68	63	76	73	72	68	64	63
3	64	64	57	56	48	48	44	43	45	45	47	47	50	48	56	53	69	66	74	72	72	68	64	63
4	65	63	56	55	48	48	44	43	46	45	47	45	50	49	57	54	70	67	74	70	75	70	63	62
5	65	63	55	53	48	48	44	43	46	45	46	45	50	50	58	55	69	67	74	71	73	72	63	62
6	64	62	53	53	48	48	44	43	45	44	46	46	51	49	60	57	68	66	73	70	71	68	63	62
7	62	62	55	53	48	48	43	42	46	45	46	46	51	50	59	57	67	64	73	70	70	67	64	61
8	62	61	56	55	48	48	44	41	46	46	46	44	50	50	61	58	67	64	71	67	69	66	64	61
9	61	60	56	56	48	48	44	43	47	46	46	45	50	50	60	57	69	65	67	66	69	65	64	62
10	61	60	57	56	48	48	45	44	47	46	46	46	50	49	62	58	72	68	66	65	68	66	63	61
11	61	60	58	57	48	47	45	44	47	46	46	46	52	49	62	59	71	68	68	65	69	67	62	61
12	61	60	57	55	48	47	45	44	47	46	47	46	52	51	63	59	70	67	68	65	69	67	62	61
13	62	60	55	52	47	46	47	45	47	46	49	47	53	51	61	59	68	67	69	66	67	66	63	61
14	63	61	52	52	46	46	47	47	47	46	49	48	53	51	60	57	68	66	70	66	68	66	62	61
15	63	61	52	51	46	46	47	47	47	46	49	47	53	51	61	57	66	64	69	67	68	65	63	61
16	63	62	52	51	46	46	47	47	48	47	48	48	53	52	61	58	67	63	69	66	68	66	62	61
17	62	61	52	51	47	46	48	47	49	47	49	47	52	51	59	57	68	65	70	65	69	66	61	60
18	62	61	52	51	47	47	48	47	48	48	50	48	52	51	59	56	67	66	71	66	69	65	61	59
19	62	61	51	50	47	47	48	48	49	47	50	48	52	50	59	56	66	64	72	66	69	66	61	60
20	61	61	50	50	47	47	48	47	48	47	51	49	53	50	59	57	67	63	71	67	67	65	62	61
21	63	61	51	50	47	47	47	45	47	46	50	49	53	51	60	58	67	64	73	69	67	64	62	61
22	62	62	51	50	47	47	46	46	46	45	51	49	55	53	62	58	70	66	73	70	68	65	63	61
23	62	60	50	50	47	47	47	46	46	45	50	48	54	51	64	59	71	68	72	69	69	66	62	62
24	60	60	50	50	47	46	47	47	47	45	49	48	51	50	64	61	72	69	72	68	70	67	62	60
25	60	60	50	50	47	46	47	47	47	46	49	48	52	50	67	60	71	68	72	68	69	67	60	59
26	60	59	50	49	47	47	47	47	48	47	49	48	53	51	69	62	72	68	71	69	70	68	60	59
27	59	59	50	50	47	47	47	45	47	46	50	49	55	51	73	64	73	69	72	69	67	66	61	60
28	60	59	50	50	47	47	46	46	46	46	50	48	57	53	69	65	73	70	74	70	66	64	62	60
29	60	57	50	50	48	47	46	46	49	48	49	48	58	55	68	65	73	70	74	70	65	64	63	60
30	57	55	50	50	48	47	46	46	49	47	49	47	58	56	67	64	77	70	71	68	65	64	63	61
31	57	57			47	46	46	46	49	47	49	47			65	63			70	67	69	64		
Max	65		58		50		48		49		51		58		73		77		77		75		66	
Min	55		49		46		41		44		44		47		53		62		65		64		59	
Avg	61		53		47		46		46		48		51		60		68		70		67		62	

TABLE D-8 (Cont.)

## DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

AO 5990.00 FEATHER RIVER FISH HATCHERY  
(October 1, 1973, through September 30, 1974)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	56	53	55	54	49	47	46	46	45	45	45	44	48	46	48	47	55	54	61	59	62	61	56	55
2	56	53	55	54	49	47	46	46	45	45	44	44	47	46	49	47	54	54	61	59	63	61	57	55
3	55	54	54	54	49	49	46	46	45	45	44	44	48	47	48	47	55	53	62	61	61	59	56	55
4	54	53	54	54	49	49	46	46	45	45	45	44	48	48	49	48	55	54	61	60	61	59	57	56
5	55	53	54	52	49	49	46	46	46	45	45	45	48	48	50	49	57	54	62	60	62	59	57	55
6	55	55	53	53	49	48	46	45	46	46	45	45	48	47	51	49	57	56	62	61	62	58	55	53
7	55	54	53	52	48	48	45	45	46	46	45	45	49	47	53	50	57	56	62	59	59	57	55	54
8	56	53	53	52	48	48	45	45	46	46	45	45	49	48	54	53	58	57	61	60	59	58	54	54
9	55	53	53	52	48	48	46	45	46	45	45	45	48	47	54	53	58	55	60	59	59	58	55	54
10	56	54	53	53	48	48	46	46	46	45	45	45	48	47	54	52	58	55	60	59	60	59	56	54
11	56	54	53	52	48	47	46	46	46	45	45	45	49	48	55	53	56	55	61	59	60	59	58	55
12	56	54	52	50	47	46	46	46	45	45	45	45	49	49	54	53	56	55	61	60	61	60	56	53
13	55	54	52	50	46	46	46	46	45	45	45	45	49	48	54	53	56	55	60	59	61	60	54	52
14	55	54	51	51	47	46	46	46	45	45	45	45	49	49	55	53	57	55	60	59	61	60	54	54
15	55	53	51	51	47	47	46	46	45	45	46	45	49	48	53	52	58	57	60	59	62	59	55	54
16	55	55	51	50	47	47	46	46	45	45	46	46	49	48	53	53	58	57	60	59	59	58	55	53
17	55	54	52	50	47	47	46	46	46	45	46	45	49	48	53	51	58	58	61	59	59	58	56	55
18	56	54	52	50	47	47	46	46	46	46	47	46	49	47	53	51	58	57	61	60	59	58	56	54
19	56	54	52	52	47	46	46	45	46	45	47	47	49	47	54	53	58	57	61	60	59	57	56	54
20	55	54	52	51	46	46	46	46	45	45	47	47	50	49	54	52	60	58	61	60	61	59	54	53
21	55	55	51	51	47	46	46	46	45	45	47	47	50	50	54	53	60	59	61	60	61	60	54	53
22	55	53	51	51	47	47	47	46	45	45	47	46	50	49	54	53	60	59	61	61	62	60	54	53
23	54	52	51	51	47	46	47	47	45	45	47	46	49	48	54	53	60	59	62	61	61	59	55	54
24	55	52	51	51	46	46	47	46	46	45	47	46	49	48	55	53	60	59	63	61	59	58	55	53
25	55	53	51	50	46	46	46	46	46	45	47	47	50	49	55	54	60	59	63	60	60	58	56	53
26	55	53	50	50	46	45	46	46	45	45	47	47	50	49	56	54	60	59	60	60	60	58	56	55
27	55	53	50	49	46	45	46	46	45	44	47	46	50	49	55	53	60	59	60	60	59	58	56	56
28	54	54	49	49	46	46	46	45	45	45	46	44	51	50	56	53	60	60	61	60	59	58	56	54
29	55	54	49	49	46	45	45	45	45	45	46	44	51	50	54	53	61	60	62	60	59	56	55	53
30	55	54	49	49	46	45	45	45	45	45	46	46	50	48	55	54	61	60	62	61	56	54	54	52
31	55	55			46	46	45	45			47	46			55	54			62	61	56	55		
Max	56		55		49		47		46		47		51		56		61		63		63		58	
Min	52		49		45		45		44		44		46		47		53		59		54		52	
Avg	54		52		47		46		45		46		48		52		57		61		59		55	

AO 6120.00 YUBA RIVER AT MARYSVILLE  
(October 1, 1973, through September 30, 1974)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	60	54	55	51	50	49	50	49	52	48	51	48	51	49	NR	NR	63	58	NR	NR	73	64	NR	NR
2	59	53	54	50	50	49	50	48	51	47	50	48	52	50	NR	NR	64	59	NR	NR	73	64	NR	NR
3	59	52	54	49	51	49	48	48	51	47	51	47	50	48	NR	NR	65	59	NR	NR	73	64	NR	NR
4	61	52	53	49	50	48	49	48	51	47	52	47	NR	NR	NR	NR	65	59	NR	NR	72	69	75	69
5	60	53	NR	NR	51	49	48	47	50	46	51	47	NR	NR	NR	NR	66	60	NR	NR	71	63	75	71
6	57	54	52	51	51	49	48	47	50	46	49	47	NR	NR	NR	NR	67	60	NR	NR	72	62	75	71
7	57	55	54	51	51	49	49	46	50	46	48	48	NR	NR	NR	NR	65	59	NR	NR	71	62	76	72
8	57	54	54	51	50	49	50	46	50	46	51	46	NR	NR	NR	NR	66	59	NR	NR	70	61	75	70
9	59	53	53	51	50	49	49	46	51	47	51	47	53	51	60	53	67	59	NR	NR	70	62	75	70
10	58	52	55	53	50	49	49	47	51	47	51	47	54	51	60	53	67	59	NR	NR	71	62	76	71
11	58	52	57	55	50	48	48	47	51	47	49	48	55	51	61	53	67	60	NR	NR	70	61	75	71
12	59	53	55	54	49	48	49	48	48	47	52	48	55	51	60	53	67	59	NR	NR	70	60	74	67
13	58	52	55	54	51	49	50	48	50	46	53	48	55	51	60	53	67	59	NR	NR	70	60	74	69
14	58	52	56	54	51	48	49	48	51	47	53	49	55	52	62	54	67	59	NR	NR	70	60	74	69
15	59	52	54	53	51	49	49	49	50	46	53	49	55	52	62	55	67	59	NR	NR	70	61	74	72
16	58	52	54	53	50	49	50	49	50	47	53	50	55	52	63	55	66	59	NR	NR	70	60	75	71
17	58	52	54	52	52	50	51	49	50	46	54	51	55	53	60	55	67	59	NR	NR	70	61	75	71
18	57	52	52	51	52	49	52	50	48	46	56	50	54	53	62	54	65	60	NR	NR	70	61	75	71
19	57	52	52	50	51	49	52	50	51	47	56	50	NR	NR	61	55	65	60	NR	NR	69	61	75	71
20	57	53	51	50	51	49	51	50	49	46	55	50	NR	NR	62	55	69	60	NR	NR	70	61	RE	RE
21	56	52	52	50	50	50	51	49	48	47	55	50	NR	NR	63	55	69	60	NR	NR	71	61		
22	55	52	51	49	51	50	51	49	50	46	55	50	NR	NR	65	56	70	60	75	64	71	62		
23	56	52	51	49	50	49	51	49	50	46	53	50	NR	NR	66	57	69	59	75	65	71	62		
24	56	51	52	49	51	50	51	49	51	46	55	50	NR	NR	67	56	69	59	75	66	71	62		
25	56	51	50	49	50	49	51	48	51	46	52	51	NR	NR	65	57	69	59	74	66	70	62		
26	56	51	51	48	50	50	51	48	49	47	54	51	NR	NR	66	57	69	59	75	66	71	62		
27	56	51	51	49	51	50	50	47	49	46	52	51	NR	NR	67	59	70	59	75	66	70	62		
28	56	51	51	49	52	51	51	48	48	47	53	51	NR	NR	64	58	70	59	76	66	70	62		
29	56	50	50	49	52	51	51	47	53	51	53	51	NR	NR	64	58	69	60	76	66	70	62		
30	56	51	50	50	52	50	50	47	52	51	52	51	NR	NR	65	58	71	61	75	66	70	62		
31	56	51			51	50	49	48			51	49			64	58			73	65	NR	NR		
Max	61		NR		52		52		52		56		NR		NR		71		NR		NR		NR	
Min	50		NR		48		46		46		46		NR		NR		58		NR		NR		NR	
Avg	55		NR		50		49		48		51		NR		NR		63		NR		NR		NR	

TABLE D-8 (Cont.)

## DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

A6 1265.00 SQUIRREL CREEK NEAR PENN VALLEY  
(October 1, 1973, through September 30, 1974)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	62	57	55	52	49	46	44	41	50	46	NR	NR	NR	NR	64	56	71	61	77	68	77	70	69	61
2	59	53	52	48	47	44	41	38	47	42	NR	NR	NR	NR	63	55	71	62	76	68	78	71	69	62
3	58	51	51	47	48	45	43	41	47	41	NR	NR	NR	NR	63	55	72	64	76	67	78	71	69	62
4	58	51	48	44	46	43	43	42	48	43	NR	NR	NR	NR	65	55	72	64	76	67	78	71	69	62
5	58	51	49	48	49	46	42	38	NR	NR	53	45	NR	NR	65	56	72	64	75	67	78	72	69	61
6	57	54	52	49	49	46	38	36	NR	NR	51	48	NR	NR	67	58	73	64	74	67	77	70	69	61
7	56	55	55	52	50	47	42	37	NR	NR	50	46	NR	NR	69	59	72	64	71	64	76	69	69	62
8	55	54	56	53	48	45	42	38	NR	NR	53	44	NR	NR	70	60	72	62	65	62	75	66	69	62
9	57	52	55	54	47	44	42	38	NR	NR	52	45	NR	NR	69	61	73	62	65	62	76	67	68	60
10	55	50	56	55	47	43	43	38	NR	NR	52	47	56	47	67	59	74	63	68	61	75	67	69	61
11	56	50	56	55	47	45	42	39	NR	NR	52	50	59	49	67	58	75	65	69	60	75	67	69	62
12	57	51	55	54	47	46	43	41	NR	NR	54	49	59	51	66	59	75	65	70	60	73	66	67	60
13	59	52	54	50	48	45	48	43	NR	NR	51	49	59	51	64	57	75	66	71	62	71	64	66	58
14	59	54	53	50	47	43	47	43	NR	NR	57	51	60	51	65	57	75	66	73	64	70	61	65	58
15	59	54	53	51	46	43	48	47	NR	NR	58	52	61	53	63	57	74	65	73	64	70	61	66	58
16	59	53	52	50	47	43	49	48	NR	NR	NR	NR	61	52	62	55	71	64	71	63	70	62	66	58
17	59	54	52	51	49	46	51	48	NR	NR	NR	NR	62	53	57	53	71	63	72	63	70	61	66	58
18	58	54	51	49	46	43	51	49	NR	NR	NR	NR	55	53	57	50	68	63	73	65	70	62	66	58
19	58	54	49	46	46	42	51	50	NR	NR	NR	NR	59	51	59	49	66	62	75	66	68	61	66	59
20	60	57	47	46	47	43	51	49	NR	NR	NR	NR	60	51	61	52	70	60	75	66	68	60	66	59
21	59	57	49	47	47	45	47	45	NR	NR	NR	NR	61	52	62	53	73	63	75	66	69	61	66	59
22	NR	NR	47	46	47	45	47	42	NR	NR	NR	NR	60	54	64	55	75	65	75	66	70	61	67	60
23	NR	NR	47	44	46	44	49	43	NR	NR	NR	NR	56	50	65	56	74	66	76	66	71	62	66	59
24	55	49	48	46	47	43	49	44	NR	NR	NR	NR	52	49	66	58	73	63	76	68	70	63	66	59
25	55	51	47	45	48	45	48	43	NR	NR	NR	NR	55	47	70	60	71	63	75	68	70	63	66	59
26	55	50	47	43	48	46	47	43	NR	NR	NR	NR	56	50	72	61	71	61	76	69	70	63	65	59
27	55	50	50	46	49	46	46	41	NR	NR	NR	NR	58	49	72	63	71	62	76	69	70	62	64	58
28	55	51	49	45	51	48	47	41	NR	NR	NR	NR	60	51	70	62	74	63	76	68	69	62	64	58
29	54	49	49	47	51	48	47	42	NR	NR	NR	NR	62	53	69	60	76	66	76	68	68	61	63	57
30	54	49	49	48	48	45	47	42	NR	NR	NR	NR	64	55	69	59	77	68	76	67	68	61	62	55
31	55	50			47	45	46	45	NR	NR	NR	NR			69	59			76	69	69	62		
Max	NR		56		51		51		NR		NR		NR		72		77		77		78		69	
Min	NR		43		42		36		NR		NR		NR		49		60		60		60		55	
Avg	NR		50		46		44		NR		NR		NR		61		68		69		68		63	

B9 D 747.2 118.4 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE  
(October 1, 1973, through September 30, 1974)

Day	October		November		December		January		February		March		April		May		June ~		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	NR	NR	NR	NR	NR	NR	NR	NR	50	49	54	53	58	56	66	64	68	65	78	76	78	75	NR	NR
2	NR	NR	NR	NR	NR	NR	NR	NR	50	49	54	53	57	56	65	63	69	66	77	76	79	77	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	50	49	54	53	58	55	65	62	70	66	77	76	80	78	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	50	49	53	52	58	56	66	63	70	67	78	77	79	78	NR	NR
5	NR	NR	NR	NR	NR	NR	NR	NR	49	49	54	52	59	57	67	63	71	68	78	77	79	78	NR	NR
6	NR	NR	NR	NR	NR	NR	NR	NR	50	48	54	53	59	57	68	64	71	68	77	74	80	79	NR	NR
7	NR	NR	NR	NR	NR	NR	NR	NR	50	47	54	53	60	58	70	65	70	68	75	73	80	78	NR	NR
8	NR	NR	NR	NR	NR	NR	NR	NR	50	49	53	52	60	59	69	67	70	67	74	71	79	77	NR	NR
9	NR	NR	NR	NR	NR	NR	NR	NR	51	49	53	52	60	58	70	67	70	67	73	70	79	77	NR	NR
10	NR	NR	NR	NR	NR	NR	NR	NR	51	50	54	52	59	57	67	65	71	68	71	68	78	77	NR	NR
11	NR	NR	NR	NR	NR	NR	NR	NR	52	50	54	53	60	58	66	64	71	69	73	69	78	76	NR	NR
12	NR	NR	NR	NR	NR	NR	NR	NR	52	51	56	54	62	59	65	62	71	68	75	71	78	76	NR	NR
13	NR	NR	NR	NR	NR	NR	NR	NR	52	51	57	55	62	58	65	62	71	69	76	73	77	75	NR	NR
14	NR	NR	NR	NR	NR	NR	NR	NR	52	50	58	57	60	58	65	62	72	69	78	75	75	74	NR	NR
15	NR	NR	NR	NR	NR	NR	NR	NR	52	50	59	58	62	57	64	62	72	69	77	75	75	74	NR	NR
16	NR	NR	NR	NR	NR	NR	NR	NR	52	51	59	58	NR	NR	63	61	71	69	76	73	75	73	NR	NR
17	NR	NR	NR	NR	NR	NR	NR	NR	52	51	59	58	NR	NR	62	60	70	69	77	74	75	73	NR	NR
18	NR	NR	NR	NR	NR	NR	NR	NR	52	51	60	58	NR	NR	62	59	69	68	78	75	75	73	NR	NR
19	NR	NR	NR	NR	NR	NR	NR	NR	52	51	60	58	NR	NR	62	59	69	67	79	77	73	71	NR	NR
20	NR	NR	NR	NR	NR	NR	NR	NR	52	51	60	58	NR	NR	63	60	72	68	80	78	74	71	NR	NR
21	NR	NR	NR	NR	NR	NR	NR	NR	52	51	59	58	NR	NR	65	61	74	71	80	78	75	72	NR	NR
22	NR	NR	NR	NR	NR	NR	NR	NR	51	50	59	57	63	62	67	63	75	73	79	77	78	74	NR	NR
23	NR	NR	NR	NR	NR	NR	NR	NR	52	50	59	57	62	60	69	65	75	72	79	77	78	76	NR	NR
24	NR	NR	NR	NR	NR	NR	NR	NR	52	50	59	57	61	59	70	67	74	71	82	78	79	76	NR	NR
25	NR	NR	NR	NR	NR	NR	NR	NR	53	51	58	57	62	60	72	69	73	70	82	80	79	76	NR	NR
26	NR	NR	NR	NR	NR	NR	NR	NR	53	52	59	57	62	61	75	71	74	71	82	80	78	76	NR	NR
27	NR	NR	NR	NR	NR	NR	NR	NR	53	52	59	57	64	61	76	74	74	70	82	79	77	75	NR	NR
28	NR	NR	NR	NR	NR	NR	NR	NR	53	52	58	57	64	62	74	72	76	72	81	78	76	74	NR	NR
29	NR	NR	NR	NR	NR	NR	NR	NR			58	57	65	62	73	70	78	75	80	77	75	73	NR	NR
30	NR	NR	NR	NR	NR	NR	49	48			58	57	66	64	70	68	78	76	79	76	NR	NR	NR	NR
31	NR	NR			NR	NR	49	48			59	57			68	66			79	76	NR	NR	NR	NR
Max Min Avg	NR NR NR		NR NR NR		NR NR NR		NR NR NR		NR 47 51		53 52 56		NR NR NR		76 59 66		78 65 71		82 68 77		NR NR NR		NR NR NR	

TABLE D-8 (Cont.)

## DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

B9 D 757.8 121.9 STOCKTON SHIP CHANNEL AT BURNS CUTOFF  
(October 1, 1973, through September 30, 1974)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	74	71	63	62	52	51	52	51	50	49	54	53	NR	NR	NR	NR	75	73	79	77	87	80	77	77
2	72	71	62	60	52	51	51	49	50	49	54	53	NR	NR	NR	NR	73	72	79	77	84	80	79	77
3	72	70	61	59	52	51	49	48	50	49	54	53	NR	NR	NR	NR	73	72	79	77	85	80	79	77
4	71	70	59	58	52	51	48	47	51	49	54	53	NR	NR	NR	NR	73	72	79	77	85	81	79	77
5	71	70	59	58	52	51	48	47	50	49	54	53	NR	NR	NR	NR	74	72	80	77	85	80	79	77
6	71	69	58	57	52	51	48	47	50	48	54	54	60	59	NR	NR	74	72	82	77	86	80	78	77
7	70	68	58	57	52	51	48	47	50	48	54	53	60	59	NR	NR	73	72	78	76	NR	NR	77	75
8	68	66	58	57	52	51	49	47	51	49	54	53	60	59	NR	NR	74	72	79	76	NR	NR	76	74
9	67	65	58	57	51	50	48	47	51	49	54	53	61	60	NR	NR	75	72	77	76	NR	NR	78	75
10	66	64	59	58	50	50	48	46	52	49	55	54	60	59	NR	NR	75	72	76	75	NR	NR	77	75
11	66	64	59	58	51	50	48	47	52	50	56	54	61	59	NR	NR	75	73	76	74	NR	NR	77	75
12	66	65	59	58	50	50	49	47	52	51	57	55	61	60	NR	NR	74	73	77	74	NR	NR	77	75
13	66	65	59	58	51	50	50	48	52	50	58	56	62	60	NR	NR	75	73	78	75	NR	NR	77	75
14	67	65	60	58	51	50	51	50	52	50	58	56	63	60	NR	NR	74	73	78	75	NR	NR	76	74
15	67	66	60	58	51	50	51	51	52	51	58	56	63	60	NR	NR	74	73	78	76	86	78	75	74
16	68	66	59	58	51	50	52	51	52	51	59	56	63	61	NR	NR	74	72	78	75	84	78	76	74
17	68	67	59	58	52	50	53	51	53	51	60	58	63	61	NR	NR	74	72	79	75	84	78	76	74
18	69	67	58	57	52	50	54	52	52	51	60	58	62	61	NR	NR	74	72	80	77	84	78	76	74
19	69	67	58	56	52	51	54	53	53	52	60	58	62	61	NR	NR	74	72	81	77	83	78	76	74
20	69	68	57	56	51	51	54	53	53	52	61	59	62	60	NR	NR	74	72	83	78	83	77	75	74
21	69	68	56	54	51	51	53	52	52	52	61	59	63	60	NR	NR	75	72	82	78	84	77	74	73
22	68	67	55	54	52	50	53	52	53	52	61	59	64	61	NR	NR	76	73	86	79	82	77	74	73
23	67	66	55	54	51	50	52	50	53	51	61	59	63	62	NR	NR	76	73	84	79	79	77	74	73
24	66	65	54	53	51	50	51	50	54	52	61	59	63	61	70	66	77	74	82	79	83	78	73	72
25	66	65	53	52	51	50	51	49	54	52	60	59	64	61	71	67	76	74	85	80	84	78	72	71
26	65	64	53	51	51	50	50	49	53	52	61	59	NR	NR	73	68	77	74	84	81	86	78	72	70
27	65	64	53	52	51	51	50	48	54	53	NR	NR	NR	NR	74	70	77	75	84	80	82	78	74	70
28	65	64	53	51	53	51	50	48	53	53	NR	NR	NR	NR	72	70	78	75	86	80	85	78	74	72
29	64	63	52	52	54	52	50	48	NR	NR	NR	NR	NR	NR	73	70	79	76	87	80	84	78	75	72
30	63	62	52	52	54	53	49	48	NR	NR	NR	NR	NR	NR	74	71	79	76	87	80	79	77	74	73
31	63	61			54	51	49	48	NR	NR	NR	NR	NR	NR	75	72			84	81	79	77		
Max	74		63		54		54		54		NR		NR		NR		79		87		NR		79	
Min	61		51		50		46		48		NR		NR		NR		72		74		NR		70	
Avg	67		57		51		50		51		NR		NR		NR		74		79		NR		75	

B9 D 759.8 125.1 SAN JOAQUIN RIVER AT RINDGE PUMP  
(October 1, 1973, through September 30, 1974)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	71	69	62	61	51	51	50	47	47	47	52	51	59	57	67	64	72	70	79	75	82	80	77	75
2	70	68	61	59	51	49	48	46	48	47	52	51	57	56	66	64	73	70	78	74	83	79	76	75
3	70	67	60	58	50	49	47	46	48	47	52	51	57	56	66	64	74	71	79	75	82	79	76	74
4	70	67	59	57	50	49	46	45	48	48	52	51	58	56	68	65	75	72	80	75	82	79	76	75
5	70	68	59	57	49	49	45	45	48	47	53	51	58	57	69	65	76	71	80	75	82	79	78	75
6	69	68	57	56	49	49	45	45	47	46	53	52	58	57	70	66	76	72	79	75	83	79	78	76
7	68	67	58	57	49	49	45	45	48	47	52	51	59	58	72	67	74	71	78	75	83	80	78	76
8	67	66	58	57	49	49	45	45	48	47	51	50	61	59	73	68	74	70	76	75	83	80	77	75
9	66	65	58	57	49	49	45	44	49	47	52	50	59	59	72	68	75	71	76	75	82	78	77	75
10	65	64	57	57	49	48	45	44	49	47	53	51	60	58	71	68	75	71	76	74	80	78	78	76
11	65	64	57	57	48	48	44	44	48	48	52	52	61	58	72	68	74	71	77	73	80	78	77	76
12	65	64	58	57	48	48	47	44	48	48	54	52	61	59	70	68	74	71	77	74	79	77	76	75
13	65	64	58	57	49	48	47	45	48	47	55	52	62	59	69	67	73	71	78	74	78	77	75	74
14	65	64	57	56	49	48	47	47	49	48	56	53	62	59	69	67	74	71	78	75	78	76	75	74
15	65	64	57	57	49	49	48	47	50	48	57	55	63	60	68	65	73	71	78	75	78	76	75	74
16	66	64	57	57	49	49	49	48	50	49	57	56	63	61	66	64	72	71	77	74	78	76	75	74
17	66	64	57	57	49	49	50	49	50	49	58	56	63	61	65	64	72	71	79	75	79	75	75	74
18	67	65	57	55	49	48	51	50	50	49	59	57	62	61	64	63	72	71	81	76	79	75	75	74
19	66	65	56	54	49	49	51	51	50	49	59	57	62	60	64	62	72	71	83	77	77	75	75	74
20	67	66	55	53	49	49	52	51	50	49	59	58	62	61	65	62	74	71	83	78	78	75	74	73
21	67	66	54	53	49	49	52	51	50	49	59	58	64	61	68	62	76	71	83	78	79	75	74	73
22	66	65	53	53	49	49	52	50	50	49	59	58	64	61	68	63	77	72	83	78	79	75	74	72
23	65	64	53	53	49	48	51	50	51	49	60	59	63	61	69	64	77	72	84	79	80	76	73	72
24	64	64	53	52	49	48	50	49	53	49	60	59	62	61	72	65	76	72	85	80	79	76	73	72
25	64	63	52	51	48	48	49	49	52	50	60	59	63	60	74	66	76	72	84	81	79	77	72	71
26	64	63	52	51	48	48	49	48	51	51	61	59	64	61	75	68	76	72	83	81	78	76	71	70
27	64	63	52	51	49	48	48	47	51	50	60	59	64	61	75	69	76	72	83	81	77	75	71	70
28	63	63	52	51	50	49	48	47	51	51	60	59	65	61	72	69	77	73	82	81	77	75	70	69
29	63	61	52	51	52	50	48	47	59	59	65	62	72	69	72	69	78	74	82	81	77	75	70	69
30	63	60	51	51	51	51	47	47	59	58	66	63	72	69	72	69	77	74	82	81	77	75	70	69
31	62	61			51	50	47	47			59	58			72	70			82	81	77	75		
Max	71		62		52		52		53		61		66		75		78		85		83		78	
Min	60		51		48		44		46		50		56		62		70		73		75		69	
Avg	65		55		49		47		49		56		60		67		73		78		78		74	

TABLE D-8 (Cont.)

## DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURES

B9 D 801.1 148.1 SAN JOAQUIN RIVER AT ANTIOCH  
(October 1, 1973, through September 30, 1974)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	72	69	66	63	NR	NR	51	49	50	48	54	50	57	55										
2	71	68	66	62	NR	NR	49	47	51	49	53	51	56	54										
3	70	68	65	61	NR	NR	48	47	51	49	53	50	56	53										
4	70	68	64	60	NR	NR	47	45	51	49	54	50	57	52										
5	71	67	63	60	NR	NR	47	45	50	48	54	51	57	55										
6	70	67	62	59	NR	NR	47	45	48	47	53	51	57	54										
7	70	67	63	60	NR	NR	46	45	48	47	53	51	58	54										
8	69	62	62	60	NR	NR	46	44	48	46	54	51	58	55										
9	71	67	62	60	NR	NR	45	44	48	46	53	51	57	55										
10	NR	NR	62	60	NR	NR	46	43	48	47	53	51	NR	NR	N		N		N		N		N	
11	69	66	61	59	NR	NR	45	44	49	47	53	51	NR	NR	O		O		O		O		O	
12	68	66	61	59	52	50	46	44	49	47	54	51	NR	NR										
13	68	66	60	59	51	49	47	45	49	47	55	52	NR	NR										
14	68	66	60	58	51	49	47	46	49	48	56	53	NR	NR										
15	68	66	NR	NR	51	50	47	46	50	48	56	53	NR	NR	R		R		R		R		R	
16	69	66	NR	NR	51	50	49	47	50	48	56	54	NR	NR	E		E		E		E		E	
17	69	66	NR	NR	52	50	50	48	50	48	57	55	NR	NR										
18	69	66	NR	NR	52	50	51	48	50	49	59	56	NR	NR	C		C		C		C		C	
19	70	66	NR	NR	51	50	51	49	51	49	60	56	NR	NR	O		O		O		O		O	
20	69	65	NR	NR	51	50	51	49	52	50	60	57	NR	NR										
21	68	66	NR	NR	51	50	51	49	51	50	59	57	NR	NR	R		R		R		R		R	
22	67	66	NR	NR	51	50	50	49	51	50	59	57	NR	NR										
23	69	66	NR	NR	50	50	52	49	51	50	59	56	NR	NR	D		D		D		D		D	
24	68	66	NR	NR	51	49	52	51	51	50	59	57	NR	NR										
25	68	66	NR	NR	50	49	53	52	52	50	58	56	NR	NR										
26	67	64	NR	NR	51	49	53	51	53	51	58	56	NR	NR										
27	67	64	NR	NR	51	50	52	51	53	51	59	56	NR	NR										
28	66	64	NR	NR	51	50	53	51	53	51	58	56	NR	NR										
29	66	64	NR	NR	51	50	52	49			57	55	NR	NR										
30	66	63	NR	NR	51	50	50	49			57	55	NR	NR										
31	65	63			51	49	50	48			57	55	NR	NR										
Max	NR		NR		NR		53		53		60		NR		NR		NR		NR		NR		NR	
Min	NR		NR		NR		43		46		50		NR		NR		NR		NR		NR		NR	
Avg	NR		NR		NR		48		49		55		NR		NR		NR		NR		NR		NR	

B9 D 814.5 130.8 SACRAMENTO RIVER AT WALNUT GROVE  
(October 1, 1973, through September 30, 1974)

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
1	65	65	58	58	53	52	51	51	49	49	50	50	53	53	60	59	65	65	73	73	72	72	68	68
2	65	65	58	58	53	52	51	50	49	49	50	50	53	52	60	58	65	65	73	73	72	72	68	68
3	65	64	58	57	52	52	50	49	49	49	50	50	52	52	58	58	65	65	74	73	72	72	69	68
4	64	63	57	57	52	52	49	49	49	49	50	50	52	52	59	58	65	65	74	74	72	72	68	68
5	63	63	57	56	52	51	49	48	49	49	50	50	52	52	59	59	65	65	74	74	72	72	68	68
6	63	63	56	55	51	51	48	47	49	49	50	50	52	52	59	59	65	65	75	74	72	72	68	68
7	63	62	55	55	51	51	48	47	49	48	50	50	53	52	60	60	66	65	75	75	73	72	68	68
8	62	61	55	55	51	51	47	47	48	48	50	50	53	53	61	60	66	66	75	74	73	73	68	68
9	61	61	55	55	51	51	47	47	48	48	50	50	54	53	62	61	66	65	74	73	73	72	68	68
10	61	61	56	55	51	51	47	47	49	48	50	50	55	54	62	62	65	65	73	72	72	72	68	68
11	61	61	56	56	51	51	47	47	49	49	50	50	55	55	62	62	65	65	72	72	72	72	68	68
12	61	60	57	56	51	51	47	47	49	49	50	50	55	55	62	62	66	65	72	71	72	71	68	68
13	60	60	57	57	51	51	47	47	49	49	50	50	55	55	62	62	67	66	71	71	71	71	68	67
14	61	60	57	56	51	51	48	47	49	49	50	50	56	55	62	62	67	67	72	71	71	70	67	67
15	61	61	56	56	51	51	48	48	50	49	51	50	56	56	62	62	67	67	72	72	70	70	67	67
16	61	61	56	55	51	51	49	48	50	50	51	51	56	56	62	61	67	67	73	73	70	69	67	66
17	62	61	55	55	51	51	49	49	50	50	52	51	57	56	61	61	67	66	73	73	69	69	67	66
18	62	61	55	55	51	51	50	49	50	50	52	52	57	57	61	61	67	66	74	73	69	69	67	66
19	62	62	55	54	51	51	50	50	50	50	53	52	57	57	61	60	67	67	74	74	69	69	66	66
20	62	62	54	54	51	51	50	50	50	50	53	53	57	57	60	60	67	67	74	73	69	69	66	66
21	62	62	54	53	51	51	50	50	50	50	53	53	57	56	60	60	67	67	74	73	69	69	66	66
22	62	62	53	53	51	51	50	49	50	50	53	53	57	57	60	60	68	67	74	74	69	69	66	66
23	62	61	53	52	51	51	49	49	50	49	54	53	57	57	60	60	69	68	74	74	69	69	66	66
24	61	61	52	52	51	50	49	49	49	49	54	54	57	57	61	60	69	69	74	73	69	69	66	66
25	61	60	52	52	50	50	49	49	49	49	54	54	58	57	62	61	70	69	75	74	69	69	66	66
26	60	60	52	52	50	50	49	49	50	49	54	53	58	58	63	62	70	70	75	75	69	69	66	66
27	60	59	52	52	50	50	49	49	50	50	53	53	58	58	64	63	70	70	75	74	69	69	66	66
28	59	59	52	52	50	50	49	49	51	50	53	53	58	58	65	64	70	70	74	73	69	69	66	66
29	59	58	52	52	51	50	49	49			53	53	58	58	65	65	72	70	73	73	69	69	66	65
30	58	58	52	52	51	51	49	49			53	53	59	58	65	65	73	72	73	73	69	69	65	65
31	58	58			51	51	49	49			53	53			65	65			73	72	69	68		
Max	65		58		53		51		51		54		59		65		73		75		73		69	
Min	58		52		50		47		48		50		52		58		65		71		68		65	
Avg	61		55		51		49		49		52		55		61		67		73		70		67	

NR - No record.



TABLE D-9

## DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

AO 6120.00 YUBA RIVER AT MARYSVILLE  
(October 1, 1973 through September 30, 1974)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	76	75	75	76	74	75	82	66	69	70	66	68	67	64	66	73	59	65
2	76	75	75	75	74	75	70	65	67	67	66	66	66	65	65	60	57	58
3	76	75	75	75	74	75	69	67	68	70	67	69	65	64	65	59	56	58
4	76	72	74	75	74	74	67	67	67	69	69	69	66	64	65	59	56	58
5	72	71	72	NR	NR	NR	69	67	68	70	69	69	66	64	65	59	57	58
6	84	72	74	78	75	77	70	68	69	72	69	71	65	63	64	59	57	58
7	77	72	75	90	76	80	70	70	70	72	65	66	65	63	64	63	57	59
8	77	75	76	83	77	80	71	70	70	66	65	66	86	63	68	61	61	61
9	75	74	74	80	75	76	70	70	70	67	66	67	100	85	93	61	60	61
10	74	73	74	89	81	84	71	70	70	68	66	67	110	66	91	62	60	61
11	74	72	73	86	76	81	73	71	72	69	66	68	117	64	82	65	61	63
12	74	72	73	76	66	72	74	73	73	71	67	69	64	63	64	66	62	64
13	74	72	73	74	67	69	75	73	74	68	66	67	65	64	65	63	61	62
14	74	72	73	71	59	64	74	73	73	70	65	68	65	63	64	63	63	63
15	80	73	76	59	58	59	75	72	73	68	67	68	63	63	63	66	63	63
16	77	72	73	69	59	63	72	72	72	67	63	64	63	62	62	63	62	63
17	73	72	73	70	62	66	74	71	72	63	57	60	63	62	63	63	62	63
18	73	72	73	65	63	64	74	72	73	62	58	59	63	61	62	64	62	63
19	73	72	73	64	63	64	72	72	72	58	53	54	70	61	64	63	63	63
20	73	72	73	65	63	64	72	72	72	55	53	54	63	62	63	63	63	63
21	73	72	73	67	65	66	74	71	72	59	55	57	63	62	63	64	63	64
22	74	71	73	66	65	66	77	73	75	61	59	60	65	62	64	64	63	64
23	80	74	77	66	64	65	73	72	72	61	59	60	63	62	62	64	63	63
24	77	74	76	68	64	66	72	72	72	62	60	61	63	61	62	67	63	64
25	75	74	75	68	66	67	74	72	72	63	61	62	63	62	63	67	64	65
26	75	74	74	68	64	67	74	74	74	65	63	64	63	63	63	73	64	69
27	74	73	74	68	67	67	77	74	75	63	63	63	63	63	63	152	68	105
28	74	73	74	70	68	69	76	71	73	64	63	64	63	61	62	140	62	76
29	74	74	74	70	67	68	74	68	72	65	64	65				66	61	63
30	75	74	74	74	74	74	68	68	68	65	65	65				61	55	59
31	75	74	74				69	66	68	66	64	65				55	53	54

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	55	53	54	NR	NR	NR	NR	NR	NR	NR	NR	NR	60	60	60	NR	NR	NR
2	56	55	55	NR	NR	NR	NR	NR	NR	NR	NR	NR	61	60	60	NR	NR	NR
3	57	56	56	NR	NR	NR	NR	NR	NR	NR	NR	NR	60	59	60	NR	NR	NR
4	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	60	60	60	90	84	87
5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	60	60	60	84	80	82
6	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	60	60	60	94	84	92
7	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	60	60	60	91	87	89
8	NR	NR	NR	NR	NR	NR	49	47	48	NR	NR	NR	60	60	60	89	86	88
9	59	56	58	NR	NR	NR	49	49	49	NR	NR	NR	61	59	60	89	87	88
10	56	53	55	NR	NR	NR	50	49	50	NR	NR	NR	61	60	61	89	87	88
11	62	54	58	NR	NR	NR	51	49	50	NR	NR	NR	61	60	61	87	86	86
12	63	59	60	NR	NR	NR	50	49	49	NR	NR	NR	62	61	61	86	84	85
13	62	58	60	NR	NR	NR	50	49	49	NR	NR	NR	62	60	61	86	82	84
14	60	57	58	NR	NR	NR	50	49	49	NR	NR	NR	61	60	61	91	85	87
15	61	59	60	NR	NR	NR	49	49	49	NR	NR	NR	61	60	61	92	90	91
16	62	58	60	NR	NR	NR	49	49	49	NR	NR	NR	62	61	62	93	91	92
17	63	60	62	NR	NR	NR	49	49	49	NR	NR	NR	62	61	62	92	90	91
18	62	61	62	NR	NR	NR	49	49	49	NR	NR	NR	62	62	62	92	91	92
19	NR	NR	NR	NR	NR	NR	51	49	50	NR	NR	NR	62	62	62	93	92	93
20	NR	NR	NR	NR	NR	NR	53	50	52	NR	NR	NR	62	62	62	RE	RE	RE
21	NR	NR	NR	NR	NR	NR	53	53	53	NR	NR	NR	62	62	62			
22	NR	NR	NR	NR	NR	NR	53	53	53	59	58	58	63	62	62			
23	NR	NR	NR	NR	NR	NR	54	53	53	59	58	59	63	62	63			
24	NR	NR	NR	NR	NR	NR	54	53	54	59	58	58	63	62	63			
25	NR	NR	NR	63	59	59	55	54	55	60	58	59	63	63	63			
26	NR	NR	NR	60	58	59	57	55	56	60	58	59	64	62	63			
27	NR	NR	NR	58	55	57	59	55	57	60	59	59	63	62	63			
28	NR	NR	NR	NR	NR	NR	58	53	54	62	59	60	64	63	64			
29	NR	NR	NR	NR	NR	NR	53	53	53	62	59	60	64	63	64			
30	NR	NR	NR	NR	NR	NR	58	53	56	60	59	60	77	64	69			
31				NR	NR	NR				60	59	60	NR	NR	NR			

NR - No Record

RE - Record Ended (Recorder removed September 20, 1974)

## DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

AO 7140.10 AMERICAN RIVER AT SACRAMENTO WATER TREATMENT PLANT  
(October 1, 1973, through September 30, 1974)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	60	55	58	59	56	58	60	59	60	60	60	60	62	60	60	62	62	62
2	60	54	57	60	57	59	61	60	60	60	60	60	60	60	60	66	62	63
3	59	55	58	60	56	59	60	59	59	60	60	60	60	60	60	66	62	63
4	61	56	59	60	56	59	60	59	59	62	60	60	60	60	60	62	61	61
5	61	57	59	60	56	58	60	60	60	62	62	62	60	60	60	61	60	60
6	63	57	60	60	58	59	62	60	61	62	62	62	60	60	60	60	60	60
7	63	59	62	59	56	57	63	62	63	62	62	62	61	60	61	60	60	60
8	63	58	61	58	56	57	63	63	63	62	61	62	61	60	60	60	60	60
9	62	59	61	60	57	59	64	63	63	61	61	61	61	60	60	60	60	60
10	62	58	60	62	57	60	65	64	64	61	61	61	61	60	61	60	60	60
11	61	56	58	62	56	59	65	64	64	62	61	61	62	60	61	60	60	60
12	58	55	56	60	57	59	68	65	67	62	62	62	61	60	61	60	60	60
13	61	55	58	63	60	61	66	65	66	63	62	62	62	60	61	62	60	61
14	61	56	59	64	63	64	65	65	65	64	63	63	62	61	62	62	61	61
15	62	57	60	64	62	63	66	65	65	65	64	64	62	61	62	61	61	61
16	61	57	59	62	57	59	65	64	65	64	64	64	63	61	62	62	61	61
17	60	54	56	57	56	56	65	64	65	64	63	64	63	61	62	62	61	62
18	54	54	54	56	56	56	64	63	63	63	62	62	63	61	62	62	62	62
19	57	54	55	56	55	56	64	62	63	63	63	63	63	61	62	63	62	63
20	59	55	57	55	55	55	NR	NR	NR	63	61	62	62	61	62	63	62	62
21	60	55	58	56	55	56	NR	NR	NR	61	60	60	62	61	62	63	62	63
22	60	55	57	57	56	56	NR	NR	NR	60	60	60	63	61	62	64	62	63
23	60	57	58	58	57	57	NR	NR	NR	62	60	62	63	61	62	64	63	64
24	58	55	57	59	58	58	NR	NR	NR	62	62	62	63	61	62	64	63	64
25	59	56	58	59	58	59	NR	NR	NR	62	62	62	62	61	62	64	63	63
26	60	58	59	60	58	59	NR	NR	NR	62	61	62	63	61	62	65	64	64
27	60	55	57	60	60	60	62	62	62	61	61	61	63	60	62	65	64	65
28	60	55	58	60	60	60	65	62	64	63	61	61	63	61	61	66	64	65
29	60	56	59	60	60	60	65	63	64	61	61	61				66	65	66
30	60	56	58	60	60	60	63	61	62	61	61	61				65	63	63
31	59	56	58				61	60	61	63	61	61				63	62	62

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	62	62	62	61	59	60	56	53	55	50	47	49	50	45	47	50	45	48
2	62	62	62	61	59	60	56	53	55	50	47	49	50	46	48	50	45	48
3	62	61	62	60	58	59	54	51	52	50	47	49	50	47	48	50	46	48
4	61	61	61	61	59	60	52	50	51	50	46	49	50	47	48	54	45	50
5	61	60	61	61	59	60	51	49	50	50	47	49	51	47	49	54	45	49
6	62	61	61	60	58	59	51	49	50	50	47	49	51	47	49	46	44	45
7	62	61	61	60	58	59	50	48	49	50	46	49	49	45	47	46	42	44
8	62	61	62	60	58	59	48	46	47	50	48	49	49	45	47	46	43	45
9	62	61	62	60	57	58	48	46	47	50	48	49	50	45	48	47	43	45
10	62	62	62	58	56	57	48	46	47	51	48	50	49	45	47	47	43	45
11	62	61	62	59	57	58	48	46	47	51	48	50	49	46	48	46	43	45
12	62	61	62	59	56	58	48	46	47	51	48	49	50	46	48	46	43	45
13	62	61	62	58	55	57	49	47	48	51	47	49	50	47	48	47	44	46
14	62	61	62	58	56	57	49	46	48	51	46	49	49	46	48	47	43	45
15	64	62	63	57	55	56	48	46	47	50	46	48	49	46	48	47	43	45
16	63	62	63	59	55	57	48	46	47	50	47	49	49	45	47	47	44	46
17	63	62	63	59	56	57	48	46	47	50	47	49	49	45	47	47	44	46
18	63	61	62	56	53	55	48	45	47	50	47	49	49	45	47	47	44	45
19	63	61	62	56	54	55	49	46	47	50	45	48	49	46	48	47	44	46
20	63	61	62	56	54	55	47	44	46	48	45	47	49	46	48	47	44	46
21	63	61	62	54	52	53	47	45	46	48	45	47	50	46	48	47	44	46
22	63	61	62	55	53	54	48	44	46	49	45	47	49	46	48	47	43	45
23	62	61	62	54	52	53	48	45	46	51	48	49	49	46	48	46	43	45
24	62	61	62	57	53	55	48	45	47	52	48	51	49	46	48	46	44	45
25	62	61	62	56	52	54	48	45	47	52	48	50	49	46	48	47	43	45
26	62	60	61	53	51	52	48	46	47	53	48	51	50	46	48	46	43	45
27	62	60	61	53	51	52	48	46	47	52	46	49	49	46	48	46	43	45
28	62	60	61	53	51	52	49	46	48	50	46	48	49	46	48	47	43	45
29	61	59	60	53	51	52	50	46	48	50	47	49	49	46	48	47	45	46
30	61	59	60	55	52	53	50	46	48	50	47	49	50	46	48	47	45	46
31				57	53	55				50	47	49	50	46	48			

NR - No Record

TABLE D-9 (Cont.)

## DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

A6 1265.00 SQUIRREL CREEK NEAR PENN VALLEY

(October 1, 1973, through September 30, 1974)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	108	105	106	160	154	156	78	40	58	108	103	106	132	128	130	NR	NR	NR
2	109	106	108	154	150	152	105	78	93	116	108	112	135	132	134	NR	NR	NR
3	109	103	106	156	152	154	120	105	114	124	116	120	137	135	137	NR	NR	NR
4	107	102	104	156	154	155	126	120	124	126	124	125	137	137	137	NR	NR	NR
5	104	100	102	156	148	152	132	126	128	126	118	124	NR	NR	NR	122	110	115
6	100	97	98	156	128	146	136	131	135	118	90	104	NR	NR	NR	128	122	125
7	120	97	110	150	62	90	140	136	138	90	74	84	NR	NR	NR	130	65	105
8	119	114	116	132	80	108	142	140	140	96	78	90	NR	NR	NR	104	68	90
9	120	117	118	144	55	110	144	142	143	106	92	102	NR	NR	NR	120	104	112
10	124	120	122	86	54	68	146	144	145	114	106	110	NR	NR	NR	127	120	124
11	129	123	126	68	42	58	145	130	140	117	110	115	NR	NR	NR	128	106	122
12	135	129	131	88	43	64	142	132	137	110	64	86	NR	NR	NR	106	56	80
13	135	132	134	108	44	85	142	85	112	88	70	80	NR	NR	NR	116	95	108
14	136	132	134	110	65	90	118	92	110	98	50	76	NR	NR	NR	126	116	120
15	142	136	140	130	110	120	132	118	126	84	48	66	NR	NR	NR	132	126	128
16	146	138	140	130	62	88	138	132	135	93	45	75	NR	NR	NR	NR	NR	NR
17	144	138	142	82	40	64	138	126	135	85	54	70	NR	NR	NR	NR	NR	NR
18	144	138	142	86	61	72	136	128	132	90	57	75	NR	NR	NR	NR	NR	NR
19	144	135	138	110	86	100	143	136	140	96	68	80	NR	NR	NR	NR	NR	NR
20	142	138	140	116	88	108	146	143	145	106	93	100	NR	NR	NR	NR	NR	NR
21	142	140	141	115	90	105	146	69	110	114	106	110	NR	NR	NR	NR	NR	NR
22	NR	NR	NR	122	105	118	100	62	80	119	114	116	NR	NR	NR	NR	NR	NR
23	NR	NR	NR	129	118	124	116	100	110	123	119	120	NR	NR	NR	NR	NR	NR
24	150	135	142	128	108	118	126	116	122	126	123	125	NR	NR	NR	NR	NR	NR
25	157	150	155	128	114	123	134	126	130	128	126	127	NR	NR	NR	NR	NR	NR
26	161	156	158	128	120	124	134	64	125	130	128	128	NR	NR	NR	NR	NR	NR
27	162	160	160	138	128	132	76	52	64	132	129	130	NR	NR	NR	NR	NR	NR
28	162	158	160	144	138	142	84	54	74	134	132	132	NR	NR	NR	NR	NR	NR
29	162	160	161	145	126	140	78	43	58	135	133	134	NR	NR	NR	NR	NR	NR
30	162	160	161	126	46	92	102	78	92	136	135	136	NR	NR	NR	NR	NR	NR
31	163	160	162				108	102	106	138	130	136	NR	NR	NR	NR	NR	NR

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	NR	NR	NR	143	141	142	156	150	155	125	121	122	104	102	104	89	88	88
2	NR	NR	NR	144	140	142	155	150	152	125	120	122	103	96	99	90	87	89
3	NR	NR	NR	150	143	146	152	151	151	120	115	118	100	96	98	89	87	88
4	NR	NR	NR	155	150	152	152	148	149	115	110	113	105	100	103	91	87	89
5	NR	NR	NR	155	151	153	150	147	148	110	110	110	106	100	103	92	89	91
6	NR	NR	NR	155	151	153	152	147	150	110	110	110	106	102	104	94	88	90
7	NR	NR	NR	153	151	152	151	143	148	110	110	110	104	103	103	89	88	89
8	NR	NR	NR	154	150	152	146	141	143	125	100	110	104	101	102	89	87	88
9	NR	NR	NR	154	151	153	150	146	149	132	121	127	105	99	102	88	86	87
10	135	128	132	159	152	156	155	150	152	135	130	134	100	94	97	87	86	86
11	138	135	136	160	156	158	155	145	151	135	120	132	94	93	94	90	87	89
12	140	138	139	162	154	158	145	141	143	122	120	121	96	94	95	90	88	89
13	142	140	140	154	148	150	141	135	137	124	121	123	97	95	96	92	89	91
14	143	140	142	150	142	146	135	135	135	122	115	118	96	91	94	91	89	90
15	146	143	145	146	143	145	135	134	135	120	115	117	92	90	91	92	90	91
16	147	144	146	154	145	147	135	131	133	120	116	118	94	91	92	95	92	94
17	150	146	148	147	146	146	135	130	132	119	115	118	91	90	90	95	93	94
18	152	146	148	146	145	146	132	131	132	119	114	117	91	89	90	96	94	95
19	150	144	147	145	142	143	135	132	134	119	114	117	91	89	90	95	93	94
20	150	140	146	146	141	143	134	130	132	114	114	114	91	90	90	96	92	94
21	140	136	138	150	146	148	130	130	130	114	114	114	91	90	90	92	90	91
22	141	136	139	148	148	148	130	128	129	114	109	112	90	90	90	92	89	90
23	140	132	136	150	148	150	132	130	130	116	109	112	93	88	90	94	91	92
24	133	125	130	150	136	145	135	132	134	109	107	108	88	86	87	91	89	90
25	137	133	135	148	137	141	135	131	134	109	106	107	87	86	86	91	90	91
26	140	130	135	152	148	150	135	125	131	108	103	105	89	85	87	93	91	92
27	142	138	140	156	152	154	125	120	123	108	103	106	90	86	88	94	91	93
28	142	138	140	156	153	154	125	121	122	107	103	105	88	84	86	95	93	94
29	142	138	140	157	154	155	125	120	122	107	102	105	88	84	86	94	92	93
30	141	136	138	157	155	156	121	120	120	108	101	105	88	85	86	92	91	92
31				155	153	154				104	102	103	88	86	87			

TABLE D-9 (Cont.)

## DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

A8 1120.00 CACHE CREEK NEAR CAPAY  
(October 1, 1973, through September 30, 1974)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	420	420	420	610	610	610	320	180	210	350	340	350	350	340	350	260	190	220
2	420	420	420	610	610	610	280	210	250	350	350	350	340	340	340	250	200	220
3	430	420	425	620	610	620	320	280	300	350	330	340	340	340	340	280	250	260
4	425	415	420	630	610	620	380	320	350	340	330	330	380	340	350	300	280	290
5	415	410	415	630	610	620	390	380	385	340	340	340	400	380	395	300	300	300
6	410	410	410	670	610	635	420	390	410	350	340	345	400	400	400	300	300	300
7	410	405	405	890	660	730	440	420	430	360	350	355	400	350	390	330	300	310
8	410	405	405	920	730	825	450	440	450	360	360	360	500	310	400	330	310	310
9	420	410	415	790	650	720	490	450	470	360	360	360	590	500	560	310	310	310
10	420	405	410	660	550	590	500	490	495	360	360	360	620	590	610	310	310	310
11	410	400	405	650	310	430	510	500	505	370	360	360	630	620	620	320	300	310
12	450	410	430	430	270	325	510	370	380	380	360	370	640	630	630	300	290	290
13	470	450	455	350	270	300	420	360	390	360	300	320	650	640	640	300	290	290
14	510	455	480	350	320	340	420	340	360	330	300	310	650	650	650	300	300	300
15	460	445	455	360	350	350	350	340	340	330	210	230	650	650	650	310	300	300
16	445	440	445	390	360	375	350	330	340	250	150	200	650	650	650	310	310	310
17	455	445	450	420	390	410	340	330	330	260	150	200	660	650	660	310	310	310
18	470	455	465	420	370	400	350	340	340	300	240	270	650	640	650	400	310	340
19	480	470	475	370	360	365	350	350	350	300	280	285	710	420	590	400	370	390
20	495	480	485	380	360	370	350	350	350	300	280	290	420	360	370	400	400	400
21	495	495	495	400	380	390	350	310	320	310	300	305	430	390	410	400	400	400
22	500	470	490	430	400	410	320	250	270	330	310	320	420	350	360	410	400	410
23	570	420	490	440	430	430	280	270	280	330	320	320	350	350	350	410	410	410
24	525	485	505	500	440	460	NR	NR	NR	330	330	330	350	350	350	410	410	410
25	575	525	555	520	500	510	NR	NR	NR	330	330	330	350	350	350	410	410	410
26	655	575	615	540	520	530	NR	NR	NR	330	330	330	350	350	350	420	410	420
27	655	645	655	560	540	550	400	330	360	330	330	330	360	350	350	420	410	420
28	650	620	635	580	560	570	340	330	335	330	330	330	390	260	350	410	280	350
29	620	610	620	590	570	570	340	340	340	340	330	330				290	220	280
30	620	610	615	600	320	520	340	340	340	340	340	340				220	180	200
31	610	600	610				340	340	340	340	340	340				260	220	240

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	280	250	270	630	620	630	400	390	400	330	330	330	310	300	300	340	330	330
2	260	250	260	630	620	630	400	400	400	330	330	330	310	300	300	330	330	330
3	280	260	270	620	620	620	400	400	400	330	330	330	300	290	300	330	330	330
4	280	280	280	630	620	630	400	400	400	330	330	330	300	290	290	330	330	330
5	290	280	290	620	570	590	400	390	400	330	320	330	300	290	290	330	330	330
6	290	290	290	570	550	560	390	390	390	320	320	320	300	290	300	330	330	330
7	300	290	290	550	490	520	390	390	390	320	320	320	300	300	300	340	330	340
8	300	300	300	490	460	480	390	370	380	330	320	330	300	290	300	340	340	340
9	300	300	300	460	430	450	370	350	360	330	330	330	300	290	290	340	340	340
10	310	300	310	430	420	420	350	350	350	360	330	360	300	290	290	340	340	340
11	310	300	310	420	420	420	350	350	350	370	360	360	300	300	300	350	340	350
12	300	300	300	420	420	420	350	350	350	370	360	370	310	300	310	350	340	350
13	300	300	300	420	420	420	350	340	350	370	360	370	310	310	310	350	350	350
14	300	300	300	420	420	420	340	340	340	360	360	360	320	310	310	350	350	350
15	300	300	300	420	420	420	340	340	340	360	340	350	310	310	310	360	350	360
16	310	300	310	430	420	420	340	340	340	340	340	340	310	300	300	360	360	360
17	330	310	310	430	420	420	340	340	340	340	330	330	300	300	300	360	360	360
18	360	330	350	430	430	430	350	340	350	330	310	320	300	300	300	380	360	370
19	410	370	400	430	430	430	360	350	350	310	310	310	300	300	300	400	380	400
20	570	410	510	430	420	420	350	350	350	350	310	340	300	300	300	400	390	400
21	600	580	590	420	410	420	360	350	360	340	320	330	300	300	300	390	380	380
22	620	600	610	410	410	410	360	350	350	330	320	330	300	300	300	380	380	380
23	610	610	610	410	410	410	350	340	350	320	310	310	300	290	300	380	380	380
24	610	420	470	410	410	410	350	350	350	320	310	310	300	290	300	390	380	380
25	420	410	420	410	400	400	350	350	350	310	310	310	300	290	290	390	390	390
26	410	400	400	400	400	400	350	340	340	310	310	310	300	290	300	390	390	390
27	390	390	390	400	390	390	340	330	330	320	310	320	310	300	310	400	390	400
28	410	390	390	390	390	390	330	330	330	320	310	320	310	310	310	410	400	410
29	680	410	510	390	390	390	330	330	330	320	320	320	330	310	320	420	410	420
30	620	590	610	400	390	390	330	330	330	320	310	320	350	330	340	420	420	420
31				390	390	390				310	300	310	350	340	340			

TABLE D-9 (Cont.)

## DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

BO 2105.00 MOKELUMNE RIVER AT WOODBRIDGE  
(October 1, 1973, through September 30, 1974)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	50	50	50	55	55	55	49	49	49	50	50	50	50	50	50	50	48	50
2	50	50	50	55	55	55	57	49	54	50	50	50	50	50	50	49	49	49
3	50	50	50	55	55	55	56	55	55	50	50	50	50	50	50	49	49	49
4	50	50	50	55	55	55	55	52	53	50	50	50	50	50	50	49	37	48
5	50	50	50	55	55	55	55	52	52	50	50	50	50	50	50	43	33	41
6	50	50	50	55	55	55	52	52	52	50	50	50	50	50	50	45	43	44
7	50	50	50	55	55	55	52	50	51	50	50	50	50	47	47	46	45	45
8	50	50	50	55	55	55	50	50	50	50	50	50	47	47	47	NR	NR	NR
9	50	50	50	55	55	55	50	50	50	50	50	50	48	47	48	NR	NR	NR
10	50	50	50	55	55	55	50	50	50	50	50	50	48	48	48	NR	NR	NR
11	50	50	50	55	55	55	50	50	50	50	50	50	48	48	48	NR	NR	NR
12	50	50	50	NR	NR	NR	50	50	50	50	50	50	50	48	49	NR	NR	NR
13	50	50	50	NR	NR	NR	50	50	50	50	50	50	49	49	49	NR	NR	NR
14	50	50	50	NR	NR	NR	50	48	49	50	50	50	50	49	50	NR	NR	NR
15	50	50	50	NR	NR	NR	50	50	50	50	50	50	52	50	51	NR	NR	NR
16	50	49	50	NR	NR	NR	50	50	50	50	50	50	52	52	52	NR	NR	NR
17	50	50	50	NR	NR	NR	50	50	50	50	50	50	52	51	51	NR	NR	NR
18	50	50	50	NR	NR	NR	50	50	50	50	49	49	51	50	51	NR	NR	NR
19	50	50	50	NR	NR	NR	50	49	49	49	49	49	51	50	50	NR	NR	NR
20	50	50	50	NR	NR	NR	49	49	49	49	49	49	50	50	50	NR	NR	NR
21	51	50	50	NR	NR	NR	49	49	49	49	49	49	50	50	50	NR	NR	NR
22	51	51	51	NR	NR	NR	50	49	49	49	49	49	50	50	50	NR	NR	NR
23	51	51	51	NR	NR	NR	50	50	50	49	49	49	50	50	50	47	47	47
24	51	51	51	NR	NR	NR	50	50	50	50	49	50	50	50	50	48	47	48
25	52	51	51	NR	NR	NR	50	50	50	50	49	50	50	50	50	48	48	48
26	52	52	52	NR	NR	NR	50	50	50	50	49	50	50	50	50	48	48	48
27	53	52	52	NR	NR	NR	50	49	50	50	49	50	50	50	50	48	48	48
28	53	53	53	NR	NR	NR	50	50	50	50	49	50	50	50	50	48	48	48
29	54	53	54	NR	NR	NR	50	50	50	50	49	50	50	50	50	48	48	48
30	55	54	55	49	49	49	50	50	50	50	49	50	50	50	50	48	48	48
31	56	55	55				50	50	50	50	50	50	50	50	50	48	48	48

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	48	48	48	47	47	47	48	48	48	49	49	49	50	50	50	49	49	49
2	NR	NR	NR	47	47	47	48	48	48	49	49	49	50	50	50	49	49	49
3	NR	NR	NR	47	46	46	48	48	48	49	49	49	50	50	50	49	49	49
4	NR	NR	NR	46	46	46	NR	NR	NR	49	49	49	50	50	50	49	49	49
5	46	45	45	46	46	46	NR	NR	NR	49	49	49	50	50	50	50	49	50
6	47	46	47	47	46	46	NR	NR	NR	49	49	49	51	50	51	50	50	50
7	47	47	47	48	47	47	NR	NR	NR	49	49	49	51	51	51	50	50	50
8	47	47	47	48	48	48	NR	NR	NR	50	49	50	51	51	51	50	50	50
9	47	47	47	48	48	48	NR	NR	NR	50	50	50	51	51	51	50	50	50
10	47	47	47	48	48	48	NR	NR	NR	50	50	50	52	51	52	50	50	50
11	48	47	48	48	48	48	NR	NR	NR	50	50	50	52	52	52	50	50	50
12	48	48	48	48	48	48	NR	NR	NR	50	49	49	52	52	52	50	50	50
13	48	48	48	48	48	48	NR	NR	NR	49	49	49	52	52	52	50	50	50
14	48	48	48	48	48	48	NR	NR	NR	49	49	49	52	52	52	50	50	50
15	48	48	48	48	48	48	NR	NR	NR	49	49	49	52	52	52	50	50	50
16	48	46	47	48	48	48	NR	NR	NR	49	49	49	52	52	52	50	50	50
17	46	46	46	48	48	48	48	48	48	49	49	49	52	52	52	50	50	50
18	46	45	46	48	48	48	48	48	48	49	49	49	52	52	52	50	50	50
19	46	46	46	48	48	48	50	48	50	49	49	49	52	52	52	50	47	48
20	46	46	46	48	48	48	50	50	50	49	49	49	52	52	52	47	47	47
21	46	46	46	48	48	48	50	50	50	49	49	49	52	52	52	47	47	47
22	46	46	46	48	48	48	50	50	50	50	49	50	52	49	50	47	47	47
23	46	46	46	48	48	48	50	50	50	50	50	50	49	49	49	47	47	47
24	47	46	46	48	48	48	50	50	50	50	50	50	49	49	49	47	47	47
25	47	47	47	48	48	48	50	50	50	50	50	50	49	49	49	47	47	47
26	47	47	47	48	48	48	50	50	50	50	50	50	49	49	49	47	47	47
27	47	47	47	48	48	48	50	50	50	50	50	50	49	49	49	47	47	47
28	47	47	47	48	48	48	50	49	49	50	50	50	49	49	49	47	47	47
29	47	47	47	48	48	48	49	49	49	50	50	50	49	49	49	47	47	47
30	47	47	47	48	48	48	49	49	49	50	50	50	49	49	49	47	47	47
31				48	48	48				50	50	50	49	49	49			

NR - No Record

## DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

BO 2580.00 STOCKTON DIVERTING CANAL AT STOCKTON  
(October 1, 1973, through September 30, 1974)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	204	196	200	NF	NF	NF	NF	NF	NF	180	145	160	215	200	205	NF	NF	NF
2	NF	NF	NF	NF	NF	NF	190	140	150	180	145	160	200	200	200	740	235	410
3	NF	NF	NF	NF	NF	NF	215	145	180	165	155	160	200	195	200	235	180	200
4	NF	NF	NF	NF	NF	NF	255	200	230	155	155	155	210	200	205	185	180	185
5	NF	NF	NF	NF	NF	NF	200	190	195	160	155	155	210	205	210	185	185	185
6	NF	NF	NF	NF	NF	NF	380	190	200	165	120	155	215	205	210	210	155	190
7	NF	NF	NF	NF	NF	NF	200	190	195	160	125	150	300	210	245	190	185	185
8	NF	NF	NF	NF	NF	NF	205	200	205	170	160	165	240	230	235	190	185	185
9	NF	NF	NF	275	255	265	210	205	210	175	165	170	NF	NF	NF	185	180	185
10	280	195	240	NF	NF	NF	NR	NR	NR	165	160	165	NF	NF	NF	185	185	185
11	305	280	295	NF	NF	NF	NR	NR	NR	190	165	170	NF	NF	NF	185	185	185
12	310	300	305	NF	NF	NF	225	220	220	190	160	175	NF	NF	NF	210	180	185
13	330	310	320	NF	NF	NF	230	220	225	165	160	165	NF	NF	NF	210	185	190
14	340	325	335	325	260	265	225	200	220	195	165	170	NF	NF	NF	185	180	185
15	340	325	335	510	260	290	285	155	230	185	170	175	NF	NF	NF	185	180	185
16	NF	NF	NF	425	235	280	370	285	350	255	170	190	NF	NF	NF	185	185	185
17	NF	NF	NF	460	255	295	335	295	310	185	180	180	NF	NF	NF	185	185	185
18	NF	NF	NF	305	260	280	295	285	290	185	165	175	NF	NF	NF	185	185	185
19	NF	NF	NF	NR	NR	NR	290	290	290	170	146	155	NF	NF	NF	190	185	190
20	NF	NF	NF	520	290	320	290	290	290	160	146	155	NF	NF	NF	190	185	190
21	NF	NF	NF	290	265	280	NR	NR	NR	165	160	163	NF	NF	NF	190	185	190
22	NF	NF	NF	265	245	250	250	96	175	168	165	166	NF	NF	NF	195	185	190
23	NF	NF	NF	245	245	245	190	185	185	173	168	170	NF	NF	NF	200	195	195
24	NF	NF	NF	480	245	345	190	185	185	177	173	175	NF	NF	NF	205	200	200
25	NF	NF	NF	300	260	280	190	185	185	185	177	180	NF	NF	NF	880	205	440
26	NF	NF	NF	NF	NF	NF	230	155	190	190	185	185	NF	NF	NF	740	230	365
27	NF	NF	NF	NF	NF	NF	180	110	145	195	185	190	NF	NF	NF	695	195	320
28	NF	NF	NF	NF	NF	NF	125	98	110	195	195	195	NF	NF	NF	250	190	200
29	NF	NF	NF	NF	NF	NF	155	105	140	215	195	200	NF	NF	NF	240	210	220
30	NF	NF	NF	NF	NF	NF	165	150	155	195	190	190	NF	NF	NF	270	220	230
31	NF	NF	NF	NF	NF	NF	160	145	150	250	190	205	NF	NF	NF	245	225	235

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	255	205	240	420	250	305	335	220	265	240	180	210	200	175	190	210	200	205
2	240	135	150	325	255	260	290	220	240	210	175	195	490	180	205	210	190	200
3	150	135	140	420	240	265	225	210	220	255	165	195	200	185	190	210	190	200
4	165	150	160	300	235	255	360	210	280	195	165	185	195	185	190	210	195	200
5	180	165	175	400	235	265	335	245	290	210	160	185	195	185	190	205	185	195
6	190	180	185	820	235	330	280	235	240	215	160	190	205	185	195	200	185	195
7	195	190	195	NF	NF	NF	280	220	240	200	160	180	210	190	195	200	185	195
8	200	195	200	NF	NF	NF	300	200	240	855	165	240	200	190	195	200	185	195
9	540	195	220	785	230	260	305	200	245	855	190	385	300	195	210	205	195	200
10	215	200	205	575	225	245	300	225	235	190	185	185	220	190	200	210	195	200
11	220	215	220	370	220	235	305	240	265	190	180	185	210	185	195	210	200	210
12	230	220	225	270	210	215	395	225	270	190	170	185	205	185	195	210	210	210
13	230	230	230	300	200	210	460	295	375	195	175	185	210	195	200	215	210	210
14	240	230	240	315	195	210	650	325	420	195	175	185	200	190	195	255	210	210
15	245	240	240	390	200	220	410	260	315	200	180	195	195	180	190	215	205	210
16	NF	NF	NF	360	195	225	315	220	255	365	185	210	195	185	190	210	205	205
17	NF	NF	NF	235	205	220	295	210	225	215	190	205	195	190	195	205	190	195
18	NF	NF	NF	325	215	220	445	205	235	245	190	215	195	185	190	195	190	195
19	NF	NF	NF	310	220	225	1000+	210	NR	210	185	200	190	180	185	195	185	190
20	345	255	300	290	215	230	280	200	210	210	185	200	190	180	185	200	190	195
21	420	345	385	295	225	235	200	195	195	200	185	200	195	180	185	200	195	200
22	440	385	415	395	220	235	275	195	205	210	185	195	190	180	185	200	190	195
23	NF	NF	NF	430	220	245	205	175	190	235	185	205	195	180	190	200	195	200
24	NF	NF	NF	400	225	260	195	170	180	220	201	215	195	180	190	205	195	200
25	460	400	435	405	225	265	220	170	185	220	210	215	195	180	190	200	195	200
26	480	460	470	415	215	240	225	190	200	265	185	230	200	180	190	200	195	200
27	490	470	480	225	215	220	210	210	210	290	260	270	200	185	195	205	200	205
28	500	485	495	340	205	220	225	200	225	330	285	310	200	180	190	205	200	205
29	500	450	475	320	215	245	210	185	200	285	170	220	205	185	195	210	200	205
30	470	380	430	215	215	215	210	180	190	260	155	200	200	190	195	205	195	200
31				400	215	305				260	195	220	205	190	200			

NR - No record  
NF - No flow

TABLE D-9 (Cont.)

## DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

BI 1150.00 COSUMNES RIVER AT MICHIGAN BAR  
(October 1, 1973, through September 30, 1974)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	77	75	76	80	77	79	124	65	88	84	79	82	86	82	84	103	80	93
2	78	76	77	84	80	82	94	86	90	84	81	83	86	83	85	85	62	69
3	78	77	77	84	82	83	102	94	98	86	84	85	85	84	85	68	64	66
4	80	77	79	85	82	84	108	102	105	96	86	90	84	84	84	70	66	68
5	80	78	79	86	84	85	110	108	109	103	94	98	85	84	84	70	66	69
6	78	77	78	142	94	112	110	107	108	103	93	98	84	83	84	69	65	68
7	88	77	80	117	90	98	112	110	110	103	93	98	84	83	84	73	66	69
8	79	77	78	91	79	86	118	112	114	103	100	101	85	84	84	71	70	70
9	77	72	74	84	75	80	120	116	118	103	102	103	86	84	85	70	66	68
10	80	76	79	90	74	79	116	110	113	104	103	104	86	85	86	72	67	69
11	80	79	80	90	79	84	117	100	115	107	103	104	87	86	86	80	72	74
12	80	76	77	107	65	77	116	112	114	111	96	104	91	86	88	84	78	80
13	76	74	75	80	58	67	134	83	110	96	94	95	94	90	92	80	75	79
14	77	75	76	110	80	96	120	113	115	105	94	98	90	90	90	79	77	78
15	78	76	77	95	93	94	113	111	112	98	80	83	90	88	89	78	75	76
16	79	77	78	110	89	99	111	109	109	83	80	81	97	88	92	76	72	74
17	80	78	79	110	94	105	114	106	109	87	65	77	93	90	91	72	71	72
18	81	79	80	115	78	91	110	96	102	74	66	70	92	90	91	71	70	70
19	82	80	81	85	81	83	96	94	94	72	62	65	114	92	98	71	70	70
20	84	82	83	87	85	86	94	94	94	66	63	64	92	88	89	71	70	70
21	84	82	84	90	87	89	110	94	100	66	65	66	97	88	90	70	70	70
22	85	82	84	91	90	91	107	98	100	68	66	67	108	97	102	71	70	70
23	87	82	85	91	91	91	105	101	103	71	68	70	100	98	99	71	70	71
24	82	78	79	97	91	94	108	104	105	73	71	72	98	97	98	71	70	70
25	82	77	79	97	93	94	104	103	104	75	72	74	97	96	96	72	70	70
26	79	75	76	95	92	94	104	87	100	75	74	74	97	95	96	74	72	73
27	77	76	76	104	91	92	109	88	95	75	74	74	96	90	92	77	72	75
28	78	77	77	95	94	95	91	86	89	77	75	76	91	90	90	74	70	72
29	78	76	77	95	94	94	89	60	77	78	76	77				70	66	69
30	78	76	78	96	76	92	68	60	64	79	78	79				81	66	73
31	80	77	78				79	68	62	82	79	80				66	63	64

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	77	63	72	64	61	62	53	52	53	77	73	75	76	76	76	62	61	62
2	69	62	64	61	57	59	54	53	54	76	73	74	77	76	77	64	61	62
3	63	62	63	57	56	56	54	53	53	76	72	74	77	76	76	65	63	64
4	65	63	64	56	56	56	54	53	54	74	71	73	76	75	76	66	64	65
5	67	65	66	56	55	55	54	53	53	74	71	73	77	75	76	65	64	65
6	68	66	67	55	54	54	54	53	54	74	71	73	76	75	75	66	63	64
7	68	67	68	54	51	53	55	54	54	74	70	72	75	74	75	67	64	65
8	69	67	68	51	50	50	56	54	55	72	69	71	74	74	74	68	65	66
9	77	68	72	50	46	48	57	55	56	86	72	78	74	73	74	69	66	68
10	71	70	70	50	46	48	58	56	57	84	70	74	74	73	74	71	66	68
11	70	68	69	50	50	50	58	56	57	74	70	72	74	73	74	72	70	71
12	70	69	70	50	50	50	58	57	58	77	72	76	76	73	74	74	72	72
13	70	68	69	51	50	51	58	58	58	78	76	77	76	75	76	75	72	73
14	69	68	68	52	51	51	59	58	58	80	78	79	75	74	74	76	73	75
15	68	66	67	53	52	52	61	59	60	81	77	80	75	73	74	77	74	76
16	66	65	66	53	52	53	63	61	62	80	78	80	76	74	75	78	75	77
17	65	64	65	55	53	54	64	62	63	80	77	78	76	74	75	78	76	77
18	65	63	64	57	54	55	66	63	65	80	76	78	76	74	75	79	76	78
19	66	65	66	58	57	58	70	65	68	80	76	78	78	75	76	79	77	78
20	66	65	66	60	58	59	80	70	76	79	75	77	78	76	78	79	77	78
21	66	65	66	61	60	61	81	78	80	79	75	78	78	76	77	81	77	79
22	65	64	65	62	61	62	79	78	78	79	75	78	76	72	74	83	80	81
23	69	63	65	61	59	60	78	76	77	79	76	78	73	70	71	83	80	82
24	76	69	73	59	57	58	77	75	76	78	75	77	70	68	69	82	80	81
25	75	72	73	57	55	56	76	73	75	77	75	76	68	64	66	80	78	79
26	72	71	70	55	53	54	75	72	74	77	75	76	64	62	63	80	78	79
27	71	70	70	53	50	52	76	72	74	76	74	75	63	62	62	80	78	79
28	70	68	69	50	49	50	76	74	75	76	74	75	62	62	62	80	77	79
29	68	66	67	50	49	49	77	73	75	77	75	76	62	61	62	80	77	79
30	66	64	65	51	50	51	77	73	75	78	76	76	62	61	62	80	77	79
31				53	51	52				77	76	76	62	61	62			

TABLE D-9 (Cont.)

## DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

B9 D 747.2 118.4 SAN JOAQUIN RIVER AT MOSSDALE BRIDGE  
(October 1, 1973, through September 30, 1974)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1										NR	NR	NR	293	283	289	497	490	493
2										NR	NR	NR	295	278	284	520	497	505
3										NR	NR	NR	321	280	292	520	419	478
4										NR	NR	NR	343	321	337	419	372	394
5										NR	NR	NR	374	337	351	426	361	390
6										NR	NR	NR	395	374	382	483	392	451
7										NR	NR	NR	408	354	377	392	257	312
8										NR	NR	NR	434	405	414	325	259	296
9										NR	NR	NR	438	408	423	309	293	299
10	N			N			N			NR	NR	NR	432	411	422	336	307	316
11	O			O			O			NR	NR	NR	442	428	437	341	329	334
12										NR	NR	NR	490	440	464	380	341	365
13										NR	NR	NR	499	443	468	384	370	376
14										NR	NR	NR	444	412	427	408	384	397
15	R			R			R			NR	NR	NR	415	361	384	419	390	401
16	E			E			E			NR	NR	NR	407	381	390	491	419	452
17										NR	NR	NR	433	407	419	530	491	504
18	C			C			C			NR	NR	NR	467	433	459	549	530	544
19										NR	NR	NR	531	467	500	588	539	567
20	O			O			O			NR	NR	NR	563	531	551	589	527	563
21	R			R			R			NR	NR	NR	567	536	557	563	520	544
22										NR	NR	NR	536	463	498	566	554	559
23	D			D			D			NR	NR	NR	467	447	459	599	562	569
24										NR	NR	NR	458	447	453	579	555	566
25										NR	NR	NR	482	454	472	571	553	562
26										NR	NR	NR	506	478	488	575	553	563
27										NR	NR	NR	509	492	503	563	417	484
28										NR	NR	NR	505	487	496	430	396	412
29										NR	NR	NR				430	397	413
30										285	280	282				428	399	414
31										291	277	282				427	375	409

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	375	355	360	450	429	438	307	281	290	1020	888	959	970	867	887			
2	364	343	358	439	392	414	302	269	283	894	859	877	940	870	890			
3	349	303	336	400	382	390	279	259	269	980	889	912	930	870	900			
4	319	286	298	427	394	408	278	254	264	1040	990	1020	970	820	890			
5	322	271	306	425	399	411	293	266	276	1070	1010	1030	910	780	825			
6	293	260	274	425	397	411	299	287	292	1050	878	966	814	760	792			
7	299	261	277	463	410	426	308	284	293	898	844	872	858	801	835			
8	333	299	318	536	463	510	314	302	306	880	856	865	882	815	864			
9	371	333	349	495	425	441	310	278	292	884	859	873	877	800	837			
10	377	360	371	435	371	398	291	253	276	871	764	827	817	795	810	N		
11	392	374	385	371	329	346	253	200	215	764	675	705	866	790	823	O		
12	391	379	384	342	320	329	268	203	230	677	647	663	862	829	847			
13	388	371	378	370	342	358	361	259	301	742	677	717	849	815	832			
14	381	347	365	369	360	365	374	353	362	750	735	742	887	845	860			
15	358	344	348	363	320	336	448	356	400	738	707	726	930	887	905	R		
16	NR	NR	NR	320	301	308	471	358	424	795	733	753	919	777	852	E		
17	NR	NR	NR	305	289	297	360	301	315	871	795	829	777	704	741			
18	NR	NR	NR	315	301	308	307	276	287	876	852	868	704	631	666	C		
19	NR	NR	NR	342	307	319	365	307	342	910	862	882	637	597	618			
20	NR	NR	NR	377	342	359	464	365	409	1060	910	1010	638	617	625	O		
21	NR	NR	NR	378	348	361	554	464	506	1070	980	1030	644	623	635	R		
22	486	479	483	460	352	394	685	554	607	1020	824	879	669	622	650			
23	515	467	484	561	460	506	719	661	685	920	830	870	663	652	657			
24	599	512	552	624	561	586	746	700	723	990	755	900	653	620	642	D		
25	648	599	630	630	603	614	764	679	709	995	770	860	650	615	630			
26	639	607	621	688	629	652	707	667	692	910	786	845	615	585	600			
27	640	616	628	708	688	701	760	657	687	847	798	819	615	585	602			
28	638	496	582	755	701	717	785	720	760	798	734	760	618	600	608			
29	496	477	486	755	463	636	851	770	812	816	737	778	624	615	618			
30	479	444	452	463	368	398	1020	845	891	878	814	836	NR	NR	NR			
31				368	281	313				878	837	854	NR	NR	NR			

NR - No record



TABLE D-9 (Cont.)

## DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

B9 D 757.8 121.9 STOCKTON SHIP CHANNEL AT BURNS CUTOFF

(October 1, 1973, through September 30, 1974)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	700	660	680	535	510	520	550	545	545	275	245	260	315	310	315	550	530	535
2	695	665	685	560	535	555	550	465	535	305	210	260	320	315	315	540	500	535
3	690	680	685	555	490	515	535	450	510	345	270	310	325	315	320	550	400	520
4	685	675	680	505	485	495	530	475	515	370	280	310	345	310	320	430	300	370
5	695	680	685	515	500	505	565	525	540	380	290	350	385	345	365	340	270	315
6	720	695	700	550	515	530	570	535	550	355	290	330	395	385	395	325	260	295
7	710	630	685	565	540	550	570	545	555	320	205	275	420	395	410	380	240	320
8	685	545	595	600	555	570	570	550	560	285	230	275	430	415	420	410	280	375
9	555	525	540	625	565	590	570	530	560	300	225	280	450	410	420	330	250	290
10	550	510	540	640	585	565	575	535	570	305	250	285	475	435	445	305	265	295
11	555	520	530	670	615	635	630	570	585	270	250	260	470	450	460	310	255	295
12	525	515	520	665	625	640	605	585	595	280	245	260	465	455	455	320	250	310
13	530	520	525	705	635	675	600	585	595	315	275	295	470	455	460	350	250	330
14	525	510	515	770	665	725	585	575	580	315	305	310	510	470	480	375	260	340
15	515	505	510	785	755	775	575	530	560	335	310	320	510	480	500	390	240	335
16	530	515	520	775	730	750	570	545	560	380	335	350	490	460	475	390	270	355
17	530	520	525	735	700	720	580	560	565	400	375	385	470	430	450	400	360	385
18	540	525	535	730	680	705	580	570	575	375	345	360	435	435	435	440	360	405
19	560	540	555	695	675	685	580	535	570	345	315	335	470	430	440	465	425	440
20	620	550	595	685	675	685	565	495	535	335	315	325	500	470	485	500	455	470
21	610	560	585	690	675	685	530	480	505	315	290	310	510	480	505	530	495	500
22	580	535	545	705	685	695	495	460	485	335	315	325	550	510	520	550	515	535
23	545	505	525	705	695	700	465	415	435	335	315	325	580	540	555	555	530	545
24	525	495	505	705	680	700	450	425	435	325	315	320	600	560	575	570	530	545
25	505	495	495	700	670	690	440	425	435	330	320	325	590	530	560	555	525	540
26	545	505	520	685	620	660	450	425	440	335	315	325	550	520	535	565	535	540
27	595	545	565	635	545	600	455	320	425	315	305	310	540	510	520	NR	NR	NR
28	590	560	580	585	520	560	395	285	340	305	280	290	540	520	525	NR	NR	NR
29	560	520	545	555	535	540	325	260	305	345	295	325	NR	NR	NR	NR	NR	NR
30	520	505	515	565	540	550	360	250	305	305	285	295	NR	NR	NR	NR	NR	NR
31	515	500	505				280	225	270	345	305	335	NR	NR	NR	NR	NR	NR

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	NR	NR	NR	NR	NR	NR	595	495	560	385	340	365	340	260	300	570	470	530
2	NR	NR	NR	NR	NR	NR	555	415	490	390	335	365	325	260	290	580	490	540
3	NR	NR	NR	NR	NR	NR	475	385	420	365	325	335	340	250	280	595	520	560
4	NR	NR	NR	NR	NR	NR	395	345	370	370	320	355	335	245	280	605	545	580
5	NR	NR	NR	NR	NR	NR	350	335	345	395	315	350	325	245	280	620	570	590
6	310	290	300	NR	NR	NR	335	325	330	390	310	345	310	260	285	625	585	605
7	335	275	295	NR	NR	NR	345	315	325	400	310	340	NR	NR	NR	590	530	565
8	290	275	285	NR	NR	NR	335	315	325	385	315	350	NR	NR	NR	610	530	580
9	320	290	305	NR	NR	NR	340	315	325	385	325	350	NR	NR	NR	620	555	595
10	345	320	330	NR	NR	NR	335	315	325	390	325	360	NR	NR	NR	605	540	585
11	375	345	355	NR	NR	NR	325	300	310	420	345	385	NR	NR	NR	615	560	595
12	390	360	370	NR	NR	NR	305	275	295	420	345	395	NR	NR	NR	630	580	610
13	385	385	385	NR	NR	NR	295	240	260	420	355	400	NR	NR	NR	635	590	615
14	385	375	380	NR	NR	NR	260	245	250	415	345	395	NR	NR	NR	630	585	615
15	380	365	375	NR	NR	NR	275	245	260	420	350	390	310	235	275	630	595	615
16	370	350	360	NR	NR	NR	300	265	280	415	355	385	305	235	275	620	595	615
17	375	355	355	NR	NR	NR	345	280	315	415	350	385	325	245	280	625	600	620
18	375	360	370	NR	NR	NR	375	305	345	420	335	380	335	255	295	630	605	620
19	390	375	380	NR	NR	NR	390	340	370	425	335	380	370	270	305	630	605	625
20	420	385	400	NR	NR	NR	370	335	335	400	330	370	380	290	325	635	620	630
21	420	385	390	NR	NR	NR	360	320	345	405	325	365	410	290	350	640	615	630
22	405	385	395	NR	NR	NR	345	335	335	395	325	365	400	300	355	645	625	640
23	415	395	400	NR	NR	NR	345	335	340	400	315	365	430	310	375	670	630	650
24	445	405	420	400	370	375	360	340	345	385	315	355	450	320	380	665	640	655
25	475	435	440	395	365	380	370	340	350	365	295	345	455	320	385	660	650	655
26	NR	NR	NR	420	375	385	370	350	360	365	290	335	450	320	395	665	655	660
27	NR	NR	NR	420	385	390	375	350	360	340	290	320	460	340	415	690	660	665
28	NR	NR	NR	425	375	400	380	355	370	350	285	310	500	375	440	685	665	675
29	NR	NR	NR	455	385	410	385	345	370	355	280	310	535	395	455	690	670	675
30	NR	NR	NR	495	405	440	375	340	365	340	265	305	520	425	475	690	660	675
31				570	420	500				340	275	300	580	445	500			

NR - No record

TABLE D-9 (Cont.)

## DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

B9 D 801.1 148.1 SAN JOAQUIN RIVER AT ANTIOCH  
(October 1, 1973, through September 30, 1974)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	820	360	550	490	200	400				NR	NR	NR	295	200	240	225	165	200
2	760	320	530	460	170	345				NR	NR	NR	300	200	240	230	175	195
3	660	290	500	440	190	330				NR	NR	NR	305	190	240	230	175	200
4	NR	NR	NR	400	180	300				NR	NR	NR	300	190	240	205	185	190
5	NR	NR	NR	400	200	315				230	190	210	275	200	230	195	170	180
6	NR	NR	NR	430	220	335				220	190	200	270	220	210	195	155	175
7	NR	NR	NR	580	210	350				250	190	205	250	195	220	200	165	170
8	NR	NR	NR	670	200	400				235	175	195	240	200	220	185	160	170
9	NR	NR	NR	850	210	480				230	195	205	235	205	220	190	155	170
10	NR	NR	NR	850	210	415	N			235	205	215	235	195	215	190	155	165
11	NR	NR	NR	1120	210	580	O			245	190	215	220	185	210	185	150	160
12	910	310	615	1230	250	695				270	205	230	230	180	210	175	150	160
13	920	280	570	770	240	520				NR	NR	NR	260	190	210	180	150	160
14	1000	280	605	500	220	380				NR	NR	NR	260	200	220	175	145	155
15	1170	300	705	NR	NR	NR	R			NR	NR	NR	255	200	220	190	145	160
16	1180	300	665	NR	NR	NR	E			NR	NR	NR	245	195	220	205	150	160
17	1130	230	625	NR	NR	NR				NR	NR	NR	250	195	220	205	150	160
18	880	260	605	NR	NR	NR	C			NR	NR	NR	245	200	215	190	155	160
19	900	240	515	NR	NR	NR				NR	NR	NR	240	190	210	190	155	170
20	880	230	510	NR	NR	NR	O			NR	NR	NR	245	200	215	190	155	165
21	780	260	515	NR	NR	NR	R			NR	NR	NR	235	195	215	195	155	170
22	830	280	580	NR	NR	NR				NR	NR	NR	245	190	215	205	155	180
23	1060	270	640	NR	NR	NR	D			NR	NR	NR	245	200	220	210	175	185
24	740	220	460	NR	NR	NR				NR	NR	NR	240	195	210	210	175	180
25	710	220	415	NR	NR	NR				NR	NR	NR	235	180	205	195	165	175
26	670	200	425	NR	NR	NR				NR	NR	NR	225	180	205	180	155	165
27	600	200	385	NR	NR	NR				NR	NR	NR	220	175	200	180	150	160
28	600	180	420	NR	NR	NR				NR	NR	NR	210	165	185	195	150	160
29	490	180	330	NR	NR	NR				NR	NR	NR				190	150	160
30	480	160	315	NR	NR	NR				270	205	235				200	150	160
31	480	170	355							285	200	235				205	160	170

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	220	165	175															
2	205	165	180															
3	190	150	170															
4	175	135	150															
5	165	130	140															
6	195	125	150															
7	180	135	155															
8	190	140	155															
9	185	145	160															
10	190	150	165		N			N			N			N			N	
11	195	155	170		O			O			O			O			O	
12	190	155	160															
13	200	155	170															
14	205	160	170															
15	215	160	175		R			R			R			R			R	
16	205	170	180		E			E			E			E			E	
17	200	165	180															
18	230	175	190		C			C			C			C			C	
19	225	185	195															
20	220	190	195		O			O			O			O			O	
21	215	175	190		R			R			R			R			R	
22	225	150	190															
23	225	165	190		D			D			D			D			D	
24	230	165	190															
25	225	170	185															
26	220	165	185															
27	235	165	190															
28	230	165	190															
29	220	170	190															
30	210	175	180															
31																		

NR - No record

TABLE D-10

## PHYTOPLANKTON ANALYSIS OF SURFACE WATER

Codes and Abbreviations

<u>Total</u>	- Total Phytoplankton per milliliter
<u>Bl-Gr</u>	- Blue-Green Algae
<u>Green</u>	- Green Algae
<u>Flag</u>	- Flagellates
<u>C/P</u>	- Centric over Pennate
<u>Samp</u>	- 5050 - Department of Water Resources
<u>Lab</u>	- 5050 - Department of Water Resources Laboratory

Most Abundant Phytoplankton

<u>Blue-Green Algae</u>		<u>Green Algae</u>	
B 03	Anacystis	G 19	Schroderia
B 51	Anabaena		
B 52	Aphanizomenon		

Flagellates

F 56	Cryptomonas
F 99	Unidentified

Diatoms

<u>Centric</u>		<u>Pennate</u>	
D 03	Cyclotella	D 55	Asterionella
D 05	Melosira (fresh water)	D 56	Caloneis
D 06	Stephanodiscus	D 62	Fragilaria
		D 65	Navicula
		D 66	Nitzschia
		D 71	Tabellaria

TABLE D-10(Cont.)

## PHYTOPLANKTON ANALYSIS OF SURFACE WATER

Station Number	Station	Date Time	Phytoplankton (number per milliliter)					Most Abundant Phytoplankton (genus/%)						Samp	Lab
			Total	B1-Gr	Green	Flag	Diatoms C/P	1	2	3	4	5	6		
A5 L 010.7 105.1	LAKE ALMANOR AT INTAKE TOWER NEAR DAM	10-16-73 1300 (**2,20,45)	2032				510 322 1200	D 71 59.2	F 99 25.1	D 05 14.2	D 03 1.5	D 06 *	D 55 *	5050	5050
A5 L 014.3 106.5	LAKE ALMANOR, EAST ARM, CENTER	10-16-73 1420 (2 feet)	258		64	32	* 162	D 71 50.4	G 19 24.8	D 65 12.4	F 99 12.4	D 03 *	D 05 *	5050	5050
		10-16-73 1430 (20 feet)	1528		96	860	382 190	F 99 45.8	D 05 22.9	D 71 12.4	F 56 10.5	D 03 2.1	D 55 *	5050	5050
		10-16-73 1440 (40 feet)	638	*		32	32 574	D 71 90.0	D 03 5.0	F 56 5.0	B 52 *	D 05 *	D 55 *	5050	5050
A5 L 015.5 111.1	LAKE ALMANOR, WEST ARM, CENTER	10-16-73 1000 (2 feet)	1114	380	64	160	320 190	B 03 34.1	D 05 28.7	D 71 17.1	F 99 14.4	G 19 5.7	B 51 *	5050	5050
		10-16-73 1030 (15 feet)	1146	*		380	412 354	F 99 33.1	D 05 33.1	D 71 25.3	D 62 5.6	D 06 2.8	B 51 *	5050	5050
		10-16-73 1050 (28 feet)	2274	*		64	800 1410	D 55 40.8	D 05 35.1	D 71 21.1	F 56 1.5	F 99 1.5	B 51 *	5050	5050
A5 L 017.6 112.0	LAKE ALMANOR NEAR MUD CREEK MOUTH	10-16-73 0910 (5 feet)	804	96	64	420	0 224	F 99 36.1	D 71 19.9	F 56 16.2	B 51 11.9	G 19 8.0	D 56 4.0	5050	5050

\* = Trace

\*\* = Composite of samples from depths listed (in feet)

## Appendix E

### GROUND WATER QUALITY DATA

This appendix presents ground water quality data collected during the period from October 1, 1973, through September 30, 1974. The data were collected from a number of major ground water sources in Northeastern California in cooperation with other state, local, and federal agencies. During the 1974 water year, 573 wells were sampled in 30 ground water basins and subbasins or subareas.

At the time of field sampling, pH and temperature measurements are normally made. Comments on current conditions are noted in field books which are available in the files of the Department of Water Resources.

Laboratory analyses of ground waters were performed in accordance with "Standard Methods for the Examination of Water and Wastewater", 13th Edition.

The Region and Basin and State Well Numbering Systems are described in Appendix C, "Ground Water Measurements", on page 241.

INDEX TO GROUND WATER QUALITY DATA  
IN NORTHEASTERN CALIFORNIA

<u>Number</u>	<u>Name</u>	<u>Page</u>
CENTRAL VALLEY REGION 5-00.00		
5- 1.00	Goose Lake Valley . . . . .	407
5- 2.00	Alturas Basin . . . . .	407
5- 4.00	Big Valley . . . . .	408
5- 5.00	Fall River Valley . . . . .	408
5- 6.00	Redding Basin . . . . .	408
5- 7.00	Lake Almanor Valley	
5- 9.00	Indian Valley	
5-10.00	American Valley	
5-11.00	Mohawk Valley	
5-12.00	Sierra Valley	
5-13.00	Upper Lake Valley . . . . .	410
5-14.00	Scott Valley . . . . .	410
5-15.00	Kelseyville Valley . . . . .	410
5-16.00	High Valley . . . . .	411
5-17.00	Burns Valley . . . . .	411
5-18.00	Coyote Valley . . . . .	412, 442
5-19.00	Collayomi Valley . . . . .	412, 442
5-21.00	Sacramento Valley	
5-21.01	Tehama County . . . . .	412, 442
5-21.02	Glenn County . . . . .	415
5-21.03	Butte County . . . . .	417, 442, 446
5-21.04	Colusa County . . . . .	419, 442
5-21.05	Sutter County . . . . .	421, 442
5-21.06	Yuba County . . . . .	422, 442
5-21.07	Placer County . . . . .	423, 443
5-21.08	Sacramento County . . . . .	424, 443
5-21.09	Yolo County . . . . .	425
5-21.10	Capay Valley	
5-21.11	Solano County . . . . .	426, 443
5-22.00	San Joaquin Valley	
5-22.01	San Joaquin County . . . . .	427, 443
5-22.51	East Contra Costa Area . . . . .	435, 444
5-30.00	Lower Lake Area . . . . .	435
LAHONTAN REGION 6-00.00		
6- 1.00	Surprise Valley . . . . .	436
6- 2.00	Madeline Plains . . . . .	437
6- 3.00	Willow Creek Valley . . . . .	437
6- 4.00	Honey Lake Valley . . . . .	438, 444
6- 5.00	Tahoe Valley	
6- 5.01	South Tahoe Valley . . . . .	440
6- 5.02	North Tahoe Valley	
6- 6.00	Carson Valley	
6- 7.00	Topaz Valley	
6- 8.00	Bridgeport Valley	
6-67.00	Truckee Valley	

405

TABLE E-1

## MINERAL ANALYSES OF GROUND WATER

Sampler and Lab Agency Codes

0001 - Well Owner  
 4203 - City of Stockton  
 5050 - Department of Water Resources  
 5105 - Glenn County  
 5110 - San Joaquin County  
 5701 - California Water Service Company

Abbreviations

TIME - Pacific Standard Time on a 24-hour clock  
 TEMP - Water temperature in degrees Fahrenheit (F) and degrees Celsius (C) at the time of field sampling  
 PH - Measure of acidity (<7) or alkalinity (>7) of water  
 EC - Electrical conductance in micromhos at 25° Celsius  
 TDS - Gravimetric determination of total dissolved solids at 180° C  
 SUM - Total dissolved solids by summation of analyzed constituents  
 TH - Total hardness  
 NCH - Noncarbonate hardness - any excess of total hardness over total alkalinity  
 SAR - Sodium adsorption ratio

Mineral Constituents

B	-	Boron	K	-	Potassium
CA	-	Calcium	MG	-	Magnesium
CL	-	Chloride	NA	-	Sodium
CO3	-	Carbonate	NO3	-	Nitrate
F	-	Fluoride	SI02	-	Silica
HCO3	-	Bicarbonate	S04	-	Sulfate



TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR		
																			PERCENT REACTANCE VALUE	
CENTRAL VALLEY REGION																				
GOOSE LAKE VALLEY																				
5																				
5-01																				
07/16/74 1305	5050	44N/13E-36A01	M	60.0F 15.5C	8.3	200	--	--	--	--	--	--	--	--	--	--	--			
07/16/74 1335	5050	44N/14E-07K01	M	60.0F 15.5C	6.9	385	--	--	--	--	--	--	--	--	--	--	--			
07/16/74 1405	5050	45N/13E-12L01	M	65.0F 18.3C	7.9	330	--	--	--	--	--	--	--	--	--	--	--			
07/16/74 1625	5050	45N/14E-32L01	M	61.0F 16.1C	7.0	243	--	--	--	--	--	--	--	--	--	--	--			
07/16/74 1550	5050	46N/14E-32J01	M	70.0F 21.1C	7.0	165	--	--	--	--	--	--	--	--	--	--	--			
07/16/74 1500	5050	47N/13E-07Q01	M	63.0F 17.2C	7.4	220	--	--	--	--	--	--	--	--	--	--	--			
07/16/74 1710	5050	47N/14E-02H01	M	68.0F 20.0C	8.3	340	--	--	--	--	--	--	--	--	--	--	--			
07/16/74 1655	5050 5050	47N/14E-14B02	M	61.0F 16.1C	6.8	175 162	--	--	--	--	--	--	2.2 .06	--	--	--	68			
07/16/74 1750	5050	48N/14E-23K01	M	58.0F 14.4C	7.1	230	--	--	--	--	--	--	--	--	--	--	--			
5-02																				
ALTURAS BASIN																				
07/18/74 0850	5050	40N/12E-11F01	M	70.0F 21.1C	8.0	160	--	--	--	--	--	--	--	--	--	--	--			
07/18/74 0910	5050	40N/12E-25J01	M	66.0F 18.9C	7.3	480	--	--	--	--	--	--	--	--	--	--	--			
07/16/74 1125	5050 5050	41N/11E-02J01	M	63.0F 17.2C	7.4 8.0	238 241	--	--	--	--	0 .00	120 1.97 87	--	8.1 .23 10	4.2 .07 3	--	--	64		
07/18/74 0825	5050 5050	41N/13E-18P01	M	65.0F 18.3C	7.3 8.1	580 604	70 3.49 54	24 1.97 31	17 .74 12	8.5 .22 3	0 .00	229 3.75 58	116 2.42 37	9.1 .26 4	1.6 .03	.00 --	--	415 359	275 86	0.4
07/16/74 1045	5050	42N/11E-19E01	M	64.0F 17.8C	8.1	440	--	--	--	--	--	--	--	--	--	--	--			
07/16/74 1100	5050	42N/11E-24A01	M	63.0F 17.2C	7.1	210	--	--	--	--	--	--	--	--	--	--	--			
07/16/74 1240	5050 5050	42N/12E-11J01	M	63.0F 17.2C	7.4 8.2	400 411	44 2.20 50	16 1.32 30	18 .78 18	3.5 .09 2	0 .00	208 3.41 80	17 .35 8	10 .28 7	13.0 .21 5	.00 --	--	281 224	176 6	0.6
07/18/74 0750	5050	42N/13E-31G01	M	60.0F 15.5C	7.1	550	--	--	--	--	--	--	--	--	--	--	--			
07/18/74 0800	5050	42N/13E-32G01	M	62.0F 16.7C	7.6	350	--	--	--	--	--	--	--	--	--	--	--			

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	PERCENT MC03	REACTANCE S04	VALUE CL	N03	B SI02	F	TDS SUM	TH NCH	SAR	
*****																			
5		CENTRAL VALLEY REGION																	
5-04		BIG VALLEY																	
07/15/74 1515	5050	37N/07E-02P01 M	62.0F 16.7C	7.0	520	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/15/74 1730	5050	37N/07E-13B01 M	60.0F 15.5C	7.1	350	20	13	30	4.8	0	145	8.7	10	36.0	.00	--	253	103	
	5050			8.0	349	1.00	1.07	1.31	.12	.00	2.38	.18	.28	.58	--	194	0	1.3	
						29	31	37	3		70	5	8	17					
07/15/74 1516	5050	38N/07E-23D01 M	65.0F 18.3C	6.9	285	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/15/74 1445	5050	38N/07E-28N09 M	63.0F 17.2C	6.3	200	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/15/74 1635	5050	38N/08E-17K01 M	61.0F 16.1C	7.3	222	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/15/74 1615	5050	38N/08E-30R01 M	63.0F 17.2C	7.0	820	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/15/74 1700	5050	38N/09E-21L01 M	70.0F 21.1C	7.5	320	--	--	--	--	--	--	--	5.7	--	--	--	--	59	
	5050				322								.16		--				
07/16/74 0735	5050	39N/07E-13Q01 M	61.0F 16.1C	6.9	220	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/16/74 0755	5050	39N/08E-23A02 M	60.0F 15.5C	6.8	240	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/16/74 0820	5050	39N/09E-28F20 M	69.0F 20.5C	7.4	195	--	--	--	--	--	--	--	--	--	--	--	--	--	
5-05		FALL RIVER VALLEY																	
07/15/74 0855	5050	37N/05E-19P02 M	66.0F 18.9C	6.6	470	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/15/74 1200	5050	37N/05E-24F01 M	60.0F 15.5C	8.2	260	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/15/74 1315	5050	37N/06E-06L01 M	57.0F 13.9C	8.0	265	--	--	--	--	--	--	--	3.5	--	.10	--	--	114	
	5050				262								.10		--				
07/15/74 1220	5050	37N/06E-19L01 M	59.0F 15.0C	8.0	225	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/15/74 1010	5050	38N/03E-24F01 M	54.0F 12.2C	6.9	150	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/15/74 0920	5050	38N/04E-27Q01 M	56.0F 13.3C	8.2	185	--	--	--	--	--	--	--	--	--	--	--	--	--	
07/15/74 1340	5050	38N/06E-31D01 M	62.0F 16.7C	8.1	190	--	--	--	--	--	--	--	3.8	--	.00	--	--	72	
	5050				186								.11		--				
5-06		REDDING BASIN																	
05/29/74 1445	5050	29N/04W-04R03 M	71.0F 21.6C	6.8	295	--	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY REGION REDDING BASIN																			
5 5-06																			
05/29/74 0835	5050	65.0F 18.3C	7.1	192	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/29/74 0955	5050	68.0F 20.0C	6.9	185	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/29/74 1230	5050	64.0F 17.8C	6.3	285	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/29/74 0930	5050	59.0F 15.0C	6.5	338	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/29/74 1205	5050	67.0F 19.4C	7.2 7.7	155 157	9.3 .46 28	8.5 .70 43	10 .44 27	.6 .02 1	0 .00	71 1.16 74	6.7 .14 9	5.3 .15 10	7.2 .12 8	.00 --	--	--	126 83	58 0	0.6
05/29/74 1310	5050	73.0F 22.8C	7.2 7.7	150 152	9.7 .48 30	7.5 .62 39	11 .48 30	1.0 .03 2	0 .00	85 1.39 88	6.9 .14 9	.0 .00	2.8 .05 3	.00 --	--	--	119 81	55 0	0.6
05/29/74 1255	5050	66.0F 18.9C	6.8	280	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/29/74 1405	5050	71.0F 21.6C	6.9	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/29/74 0905	5050	67.0F 19.4C	7.0	175	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/30/74 0945	5050	69.0F 20.5C	6.5	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/30/74 1025	5050	68.0F 20.0C	6.5	175	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/30/74 1045	5050	65.0F 18.3C	6.3	195 199	--	--	--	--	--	--	--	4.0 .11	--	.00 --	--	--	--	80	--
05/29/74 1045	5050	66.0F 18.9C	6.8 7.8	185 215	16 .80 35	12 .99 43	10 .44 19	1.9 .05 2	0 .00	115 1.88 84	4.3 .09 4	4.3 .12 5	10.0 .16 7	.00 --	--	--	202 115	90 0	0.5
05/30/74 1225	5050	75.0F 23.9C	7.3 8.0	350 365	15 .75 21	9.4 .77 22	45 1.96 56	1.3 .03 1	0 .00	134 2.20 65	1.0 .02 1	42 1.18 35	.1 .00	.80 --	--	--	241 180	76 0	2.2
05/30/74 1245	5050	68.0F 20.0C	7.2	245 247	--	--	--	--	--	--	--	10 .28	--	.00 --	--	--	--	88	--
05/30/74 1300	5050	70.0F 21.1C	6.9	175	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/30/74 1315	5050	62.0F 16.7C	6.8	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/30/74 1335	5050	75.0F 23.9C	6.8	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY REGION KEDDING BASIN																		
05/29/74 1440	5050	75.0F 23.9C	7.3 265	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/30/74 0930	5050	68.0F 18.9C	7.0 340	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/30/74 1005	5050	68.0F 20.0C	6.6 225	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/30/74 0840	5050	68.0F 20.0C	8.1 625 8.2 663	13 .65 11	2.8 .23 4	121 5.26 85	1.0 .03	0 .00	217 3.56 59	23 .48 8	70 1.97 33	3.1 .05 1	5.60	-- --	398 346	44 0	7.9	--
5-13 UPPER LAKE VALLEY																		
07/09/74 1105	5050	65.0F 18.3C	6.5 180	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/09/74 1040	5050	62.0F 16.7C	6.3 210	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/09/74 1015	5050	74.0F 23.3C	7.8 350	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/09/74 1230	5050	64.0F 17.8C	6.3 195 188	--	--	--	--	--	--	--	8.3 .23	--	--	--	--	--	59	--
07/09/74 1205	5050	68.0F 20.0C	6.9 385	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/09/74 1240	5050	63.0F 17.2C	6.8 230	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/09/74 1255	5050	66.0F 18.9C	7.3 205 208	--	--	--	--	--	--	--	4.6 .13	--	--	--	--	--	87	--
5-14 SCOTT VALLEY																		
07/09/74 1520	5050	72.5F 16.9C	7.0 365 364	--	--	--	--	--	--	--	4.5 .13	--	--	--	--	--	156	--
07/09/74 1450	5050	65.0F 18.3C	7.2 355	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/09/74 1355	5050	71.0F 21.6C	6.6 225	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/09/74 1415	5050	58.0F 14.4C	6.8 345	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-15 KELSEYVILLE VALLEY																		
07/09/74 1645	5050	60.0F 15.5C	6.8 650 684	--	--	--	--	--	--	--	12 .34	25.0 .40	--	--	--	--	352	--
07/09/74 1555	5050	64.0F 17.8C	6.5 565	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B SiO2	F	TDS SUM	TH NCH	SAR
CENTRAL VALLEY REGION																	
5-15 KELSEYVILLE VALLEY																	
07/10/74 0730	5050	13N/09W-08B01 M 57.0F 13.9C	6.5 720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/10/74 0815	5050	13N/09W-08N01 M 69.0F 20.5C	6.7 375	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/10/74 0730	5050 5050	13N/09W-09F02 M 60.0F 15.5C	7.3 740 777	--	--	--	--	--	--	--	12 .34	1.0 .02	--	--	--	417	--
07/09/74 1800	5050 5050	13N/09W-12M01 M 63.0F 17.2C	6.9 560 566	19 .95 16	41 3.37 56	36 1.57 26	4.9 .13 2	0 .00	283 4.64 78	12 .25 4	38 1.07 18	.8 .01	1.00	--	358 292	216 0	1.1
07/10/74 0915	5050 5050	13N/09W-15O01 M 74.0F 23.3C	6.3 975 1010	46 2.30 19	104 8.55 72	20 .87 7	4.1 .10 1	0 .00	626 10.26 90	.3 .01	36 1.02 9	7.7 .12 1	3.40	--	633 529	544 30	0.4
07/10/74 0900	5050	13N/09W-16O03 M 61.0F 16.1C	6.7 440	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/10/74 0835	5050	13N/09W-17A01 M 70.0F 21.1C	6.5 1025	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/10/74 0955	5050	13N/09W-18J01 M 67.0F 19.4C	7.2 285	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/10/74 1020	5050	13N/09W-21F02 M 67.0F 19.4C	6.3 710	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/10/74 1055	5050	13N/09W-22J01 M 61.0F 16.1C	7.1 480	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/09/74 1615	5050 5050	14N/09W-32J01 M 62.0F 16.7C	6.7 925 979	--	--	--	--	--	--	--	26 .73	--	--	--	--	521	--
07/09/74 1630	5050 5050	14N/09W-32J03 M 63.0F 17.2C	6.3 600 632	--	--	--	--	--	--	--	16 .45	--	--	--	--	314	--
5-16 HIGH VALLEY																	
07/09/74 0905	5050 5050	14N/08W-23K01 M 66.0F 18.9C	6.5 170 175	12 .60 33	8.3 .68 38	12 .52 29	.1 .00	0 .00	86 1.41 80	9.4 .20 11	4.3 .12 7	2.5 .04 2	.00	--	114 91	64 0	0.7
07/09/74 0930	5050 5050	14N/08W-24802 M 65.0F 18.3C	6.1 720 782	43 2.15 24	53 4.36 49	53 2.31 26	1.3 .03	0 .00	409 6.70 78	60 1.25 15	23 .65 8	1.0 .02	.50	--	434 436	324 0	1.3
5-17 BURNS VALLEY																	
07/10/74 1505	5050	13N/07W-15J02 M 64.0F 17.8C	7.0 400	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/10/74 1430	5050 5050	13N/07W-15N01 M 66.0F 18.9C	6.6 235 243	--	--	--	--	--	--	--	9.4 .27	11.0 .18	--	--	--	67	--
07/10/74 1400	5050	13N/07W-21J02 M 73.0F 22.8C	7.2 625	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PM EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	504	CL	NO3	B SiO2	F	TDS SUM	TH NCH	SAR		
.....																			
5		CENTRAL VALLEY REGION																	
5-17		BURNS VALLEY																	
07/10/74 1340	5050	13N/07W-27C01	M	75.0F 23.9C	7.3	320	--	--	--	--	--	--	--	--	--	--	--		
5-18		COYOTE VALLEY																	
08/05/74 1545	5050 5050	11N/06W-29M01	M	65 F 18 C	7.9 8.2	590 575	11 .55 8	69 5.67 86	8.2 .36 5	1.0 .03	0 .00	375 6.15 93	11 .23 3	6.7 .19 3	1.2 .02	.20 --	318 293	312 4 0.2	
5-19		COLLAYOMI VALLEY																	
08/05/74 1300	5050 5050	10N/07W-03M01	M	67 F 19 C	7.5 8.3	225 233	13 .65 27	17 1.40 57	8.2 .36 15	1.2 .03 1	0 .00	128 2.10 89	7.1 .15 6	4.3 .12 5	.0 .00	.10 --	189 114	101 0 0.4	
5-21		SACRAMENTO VALLEY																	
5-21.01		TEHAMA COUNTY																	
06/07/74 1250	5050	22N/02W-05A01	M	70.0F 21.1C	7.9	330	--	--	--	--	--	--	--	--	--	--	--		
06/07/74 1305	5050	23N/02W-04A02	M	63.0F 17.2C	7.0	340	--	--	--	--	--	--	--	--	--	--	--		
06/07/74 1250	5050	23N/02W-05A01	M	70.0F 21.1C	7.9	330	--	--	--	--	--	--	--	--	--	--	--		
06/07/74 1255	5050	23N/03W-22Q01	M	71.0F 21.6C	7.3	300	--	--	--	--	--	--	--	--	--	--	--		
06/07/74 1025	5050	23N/03W-27N01	M	72.0F 22.2C	7.2	380	--	--	--	--	--	--	--	--	--	--	--		
06/07/74 1040	5050	23N/03W-35B01	M	69.0F 20.5C	7.0	210	--	--	--	--	--	--	--	--	--	--	--		
06/07/74 1340	5050	24N/01W-36A02	M	68.0F 20.0C	7.0	220	--	--	--	--	--	--	--	--	--	--	--		
06/07/74 1410	5050	24N/02W-14K01	M	65.0F 18.3C	6.8	440	--	--	--	--	--	--	--	--	--	--	--		
06/07/74 1430	5050 5050	24N/02W-30C01	M	72.0F 22.2C	7.2 8.4	580 576	40 2.00 31	35 2.88 45	34 1.48 23	1.2 .03	6.0 .20 3	295 4.84 77	24 .50 8	20 .56 9	12.0 .19 3	.00 --	325 317	243 0 0.9	
06/10/74 1025	5050	24N/03W-03P01	M	68.0F 20.0C	7.0	340	--	--	--	--	--	--	--	--	--	--	--		
06/07/74 0905	5050	24N/03W-17M01	M	72.0F 22.2C	6.9	220	--	--	--	--	--	--	--	--	--	--	--		
06/07/74 0925	5050 5050	24N/03W-20N01	M	67.0F 19.4C	7.0	175 168	--	--	--	--	--	--	3.9 .11	--	.00 --	--	62		
06/07/74 1445	5050 5050	24N/03W-24P01	M	69.0F 20.5C	7.2 8.4	750 765	60 2.99 33	54 4.44 49	38 1.65 18	1.2 .03	9.0 .30 3	461 7.56 84	26 .54 6	13 .37 4	12.0 .19 2	.00 --	445 440	370 0 0.9	
06/07/74 0945	5050 5050	24N/03W-33M01	M	73.0F 22.8C	6.9 8.2	195 190	8.2 .41 21	8.6 .71 36	20 .87 44	.4 .01 1	0 .00	90 1.48 75	8.2 .17 9	3.4 .10 5	14.0 .23 12	.00 --	147 107	56 0 1.2	

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY REGION SACRAMENTO VALLEY																		
5 5-21																		
5-21.01 25N/02W-04M01																		
06/06/74 1130	5050	M	74.0F 23.3C	6.5	280	--	--	--	--	--	--	--	--	--	--	--	--	--
06/06/74 1335	5050	M	63.0F 17.2C	7.0	560	--	--	--	--	--	--	--	--	--	--	--	--	--
06/06/74 1255	5050	M	70.0F 21.1C	7.3	280	--	--	--	--	--	--	--	--	--	--	--	--	--
06/06/74 1245	5050	M	69.0F 20.5C	6.5	360	--	--	--	--	--	--	--	--	--	--	--	--	--
06/11/74 0745	5050	M	80.0F 26.6C	7.8	385	--	--	--	--	--	--	--	--	--	--	--	--	--
06/06/74 1410	5050	M	68.0F 20.0C	6.9	645	--	--	--	--	--	--	--	--	--	--	--	--	--
06/10/74 0915	5050	M	72.0F 22.2C	7.1	375	--	--	--	--	--	--	--	--	--	--	--	--	--
06/10/74 1005	5050	M	67.0F 19.4C	6.9	380	--	--	--	--	--	--	--	--	--	--	--	--	--
06/10/74 1130	5050	M	77.0F 25.0C	6.9	365	--	--	--	--	--	--	--	--	--	--	--	--	--
06/10/74 0940	5050	M	83.0F 28.3C	7.3	180	--	--	--	--	--	--	--	--	--	--	--	--	--
06/06/74 1300	5050 5050	M		8.2	479	32 1.60 29	44 3.62 65	6.7 .29 5	.8 .02	0 .00	314 5.15 96	1.8 .04 1	4.3 .12 2	3.6 .06 1	.00 --	285 248	260 4	0.2
06/06/74 1201	5050	M	75.0F 23.9C	7.1	220	--	--	--	--	--	--	--	--	--	--	--	--	--
06/06/74 1115	5050	M	64.0F 17.8C	6.9	320	--	--	--	--	--	--	--	--	--	--	--	--	--
06/10/74 1225	5050	M	83.0F 28.3C	7.1	320	--	--	--	--	--	--	--	--	--	--	--	--	--
06/10/74 1235	5050	M	72.0F 22.2C	7.2	270	--	--	--	--	--	--	--	--	--	--	--	--	--
06/10/74 1210	5050 5050	M	76.0F 24.4C	6.9	370 385	--	--	--	--	--	--	--	14 .39	27.0 .44	--	--	--	165
06/10/74 1155	5050	M	80.0F 26.6C	7.2	170	--	--	--	--	--	--	--	--	--	--	--	--	--
06/10/74 0810	5050 5050	M	70.0F 21.1C	7.4 8.2	490 509	34 1.70 32	33 2.71 51	21 .91 17	1.6 .04 1	0 .00	236 3.87 74	18 .37 7	29 .82 16	11.0 .18 3	.00 --	310 264	221 27	0.6

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCM	SAR	
*****																			
5		CENTRAL VALLEY REGION																	
5-21		SACRAMENTO VALLEY																	
5-21.01		TEHAMA COUNTY																	
06/10/74 0810	5050	M	26N/03W-36F01	70.0F	7.9	360	--	--	--	--	--	--	--	--	--	--	--	--	--
				21.1C												--	--		
06/10/74 0835	5050	M	26N/03W-36K01	75.0F	7.7	385	--	--	--	--	--	--	--	--	--	--	--	--	--
				23.9C												--	--		
06/05/74 1145	5050	M	26N/04W-10D01	76.0F	7.7	370	--	--	--	--	--	--	--	--	--	--	--	--	--
				24.4C												--	--		
06/06/74 0945	5050 5050	M	27N/02W-30C02	62.0F	6.6	290	--	--	--	--	--	--	6.9	--	.10	--	--	121	
				16.7C		282							.19			--	--		
06/05/74 1330	5050	M	27N/03W-10801	70.0F	7.1	360	--	--	--	--	--	--	--	--	--	--	--	--	--
				21.1C												--	--		
06/05/74 1340	5050	M	27N/03W-10Q01	73.0F	7.9	285	--	--	--	--	--	--	--	--	--	--	--	--	--
				22.8C												--	--		
09/05/74 0915	5050 5050	M	27N/03W-14N01	63.0F	6.9	695	36	34	46	1.4	0	189	15	96	23.0	.90	--	398	231
				17.2C	7.6	698	1.80	2.80	2.00	.04	.00	3.10	.31	2.71	.37	--	--	345	75
06/05/74 1315	5050	M	27N/03W-15C01	69.0F	7.0	380	--	--	--	--	--	--	--	--	--	--	--	--	--
				20.5C												--	--		
06/05/74 1300	5050 5050	M	27N/03W-15E01	74.0F	7.0	515	--	--	--	--	--	--	17	15.0	--	--	--	247	
				23.3C		522							.48	.24		--	--		
06/05/74 1245	5050	M	27N/03W-15N01	73.0F	7.3	500	--	--	--	--	--	--	--	--	--	--	--	--	--
				22.8C												--	--		
06/06/74 0900	5050 5050	M	27N/03W-21C01	72.0F	7.5	290	--	--	--	--	0	147	--	5.4	9.4	--	--	--	122
				22.2C	8.3	283					.00	2.41		.15	.15		--	--	
06/06/74 0915	5050	M	27N/03W-22801	65.0F	6.9	500	--	--	--	--	--	--	--	--	--	--	--	--	--
				18.3C												--	--		
06/06/74 0925	5050 5050	M	27N/03W-23D01	64.0F	7.1	625	25	21	68	2.1	0	166	10	97	14.0	1.20	--	380	148
				17.8C	8.3	624	1.25	1.73	2.96	.05	.00	2.72	.21	2.74	.23	--	--	320	13
06/06/74 1000	5050 5050	M	27N/03W-25D01	6.9	460	32	25	15	2.2	0	192	19	9.1	25.0	.10	--	280	182	0.5
				7.9	418	1.60	2.06	.65	.06	.00	3.15	.40	.26	.40	--	--	222	26	
09/24/74 0800	5050 5050	M	27N/03W-28C03	64.0F	6.8	215	18	12	7.4	.9	0	101	16	1.9	8.2	.00	--	145	95
				17.8C	7.9	210	.90	.99	.32	.02	.00	1.66	.33	.05	.13	--	--	114	12
06/05/74 0955	5050	M	27N/04W-01H02	71.0F	7.8	230	--	--	--	--	--	--	--	--	--	--	--	--	--
				21.6C												--	--		
06/10/74 1340	5050	M	27N/04W-03J01	68.0F	7.1	220	--	--	--	--	--	--	--	--	--	--	--	--	--
				20.0C												--	--		
06/05/74 1020	5050 5050	M	27N/04W-12P01	74.0F	7.3	320	29	13	20	2.0	0	183	4.1	5.3	7.6	.00	--	212	128
				23.3C	8.3	328	1.45	1.07	.87	.05	.00	3.00	.09	.15	.12	--	--	171	0



TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE LAB	TEMP	FIELD LABORATORY PH EC	MINERAL	CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCM	SAR
CENTRAL VALLEY REGION																		
SACRAMENTO VALLEY																		
TEHAMA COUNTY																		
5-21.01																		
27N/04W-24C01 M																		
7/05/74 1030	5050	70.0F 21.1C	7.2 295	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
27N/04W-26J01 M																		
7/05/74 1100	5050	71.0F 21.6C	6.8 325	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
28N/03W-28A01 M																		
7/05/74 0930	5050 5050	75.0F 23.9C	6.8 440 468	--	--	--	--	--	--	--	38 1.07	15.0 1.24	--	--	--	166	--	
28N/03W-29G01 M																		
7/05/74 0915	5050		6.9 450	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
GLENN COUNTY																		
5-21.02																		
18N/01W-16H01 M																		
7/11/74 1335	5105 5050	69.0F 26.5C	7.9 375 7.7 446	24 1.20 27	10 .82 19	54 2.35 53	1.0 .03 1	0 .00 73	195 3.20 73	.5 .01 26	40 1.13 26	1.5 .02 1	.20 --	--	258 227	101 0	2.3	
18N/02W-01E01 M																		
7/11/74 1230	5105	66.0F 18.9C	7.5 725	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
18N/02W-07F01 M																		
7/11/74 1127	5105	67.0F 19.4C	7.8 580	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
18N/03W-10K01 M																		
7/11/74 1155	5105 5050	69.0F 20.5C	7.8 760 7.7 782	44 2.20 27	37 3.04 37	69 3.00 36	.7 .02 1	0 .00 64	328 5.38 64	95 1.98 24	33 .93 11	7.3 .12 1	.20 --	--	473 447	264 0	1.9	
19N/02W-06G01 M																		
7/11/74 1015	5105	68.0F 20.0C	7.2 340	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
19N/02W-23N01 M																		
7/11/74 1358	5105	68.0F 20.0C	7.4 920	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
19N/03W-04E01 M																		
7/11/74 1030	5105	70.0F 21.1C	7.7 620	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
19N/03W-09J01 M																		
7/11/74 1041	5105	68.0F 20.0C	7.7 490	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
19N/03W-18P01 M																		
7/11/74 1052	5105	64.0F 17.8C	7.6 630	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
19N/03W-26P01 M																		
7/11/74 1205	5105	69.0F 20.5C	7.6 570	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
20N/02W-11Q01 M																		
7/11/74 1435	5105	65.0F 18.3C	7.2 440	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
20N/02W-13Q01 M																		
7/11/74 1446	5105	67.0F 19.4C	7.8 445	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
20N/02W-22E01 M																		
7/11/74 1425	5105	70.0F 21.1C	7.9 295	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
20N/03W-02D01 M																		
7/09/74 1527	5105 5050	65.0F 18.3C	8.2 435 7.4 453	--	--	--	--	0 .00	216 3.54 63	--	24 .68 16	2.7 .04 1	--	--	--	194	--	

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE						MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR		
*****																			
	5			CENTRAL VALLEY REGION															
	5-21			SACRAMENTO VALLEY															
	5-21.02			GLENN COUNTY															
07/09/74 1512	5105	20N/03W-16E01	M	77.0F	8.0	300	--	--	--	--	--	--	--	--	--	--	--	--	
				25.0C															
07/09/74 1503	5105 5050	20N/03W-16E02	M	50.0F	7.8	305	18	18	17	.4	0	153	2.5	7.7	12.0	.00	--	177	
				10.0C	7.3	285	.90	1.48	.74	.01	.00	2.51	.05	.22	.19	--	--	151	117
							29	47	24			85	2	7	6				
07/11/74 0925	5105	20N/03W-26R01	M	67.0F	7.1	540	--	--	--	--	--	--	--	--	--	--	--	--	
				19.4C															
07/09/74 1445	5105	20N/04W-02Q01	M	69.0F	7.8	360	--	--	--	--	--	--	--	--	--	--	--	--	
				20.5C															
07/11/74 1500	5105 5050	21N/01W-29N01	M	67.0F	7.6	430	--	--	--	--	--	--	13	--	--	--	--	197	
				19.4C		444						.37							
07/17/74 1828	5105 5050	21N/02W-15C01	M	67.0F	7.2	495	--	--	--	--	--	--	43	21.0	--	--	--	298	
				19.4C		674						1.21	.34						
07/09/74 1355	5105	21N/03W-02Q01	M	69.0F	7.2	675	--	--	--	--	--	--	--	--	--	--	--	--	
				20.5C															
07/09/74 1422	5105	21N/03W-08A02	M	70.0F	8.0	280	--	--	--	--	--	--	--	--	--	--	--	--	
				21.1C															
07/16/74 1945	5105	21N/03W-20D02	M	72.0F	7.8	340	--	--	--	--	--	--	--	--	--	--	--	--	
				22.2C															
07/09/74 1230	5105	22N/01W-29C01	M	65.0F	7.2	560	--	--	--	--	--	--	--	--	--	--	--	--	
				18.3C															
07/09/74 1200	5105	22N/02W-03A01	M	65.0F	7.1	560	--	--	--	--	--	--	--	--	--	--	--	--	
				18.3C															
07/09/74 1152	5105 5050	22N/02W-03A04	M	66.0F	7.2	620	--	--	--	--	--	--	47	22.0	--	--	--	272	
				18.9C		648						1.33	.35						
07/09/74 1117	5105 5050	22N/02W-04C02	M	68.0F	7.2	540	48	28	24	.7	0	205	38	35	30.0	.00	--	325	236
				20.0C	7.7	563	2.40	2.30	1.04	.02	.00	3.36	.79	.99	.48	--	--	304	67
							42	40	18			60	14	18	9				
07/09/74 1101	5105	22N/02W-07N01	M	68.0F	7.1	520	--	--	--	--	--	--	--	--	--	--	--	--	
				20.0C															
07/09/74 1121	5105	22N/02W-20Q01	M	70.0F	7.1	460	--	--	--	--	--	--	--	--	--	--	--	--	
				21.1C															
07/09/74 1308	5105	22N/02W-26R01	M	65.0F	7.2	425	--	--	--	--	--	--	--	--	--	--	--	--	
				18.3C															
07/09/74 1043	5105	22N/03W-06H01	M	66.0F	7.1	1010	--	--	--	--	--	--	--	--	--	--	--	--	
				18.9C															
07/09/74 1008	5105	22N/03W-17E01	M	70.0F	7.1	415	--	--	--	--	--	--	--	--	--	--	--	--	
				21.1C															

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY REGION																		
SACRAMENTO VALLEY																		
GLENN COUNTY																		
5-21.02																		
22N/03W-17K01																		
07/09/74 1000	5105	74.0F 23.3C	7.3	500	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22N/03W-22G02																		
07/09/74 0930	5105	66.0F 18.9C	7.1	395	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22N/03W-22Q01																		
07/09/74 0918	5105 5050	64.0F 17.8C	7.1 7.6	442 511	--	--	--	--	0 .00	242 3.97 82	--	25 .71 15	8.9 .14 3	--	--	--	--	221
22N/03W-25B01																		
07/11/74 1543	5105	66.0F 18.9C	7.2	420	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22N/03W-32R02																		
07/08/74 1412	5105	65.0F 18.3C	6.8	450	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22N/04W-10B01																		
07/09/74 1020	5105	67.0F 19.4C	6.9	475	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5-21.03																		
17N/01E-01R01																		
05/20/74 1145	5050	63.0F 17.2C	7.3	420	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17N/03E-18Q01																		
05/20/74 1215	5050 5050	65.0F 18.3C	7.2 8.5	520 568	40 2.00 32	40 3.29 53	21 .91 15	.8 .02	14 .47 8	292 4.79 77	14 .29 5	1.4 .04 1	37.0 .60 10	.00	--	342 312	265 2	0.6
17N/03E-20C01																		
05/20/74 1245	5050	66.0F 18.9C	7.1	345	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17N/04E-16M01																		
05/21/74 0755	5050	67.0F 19.4C	6.4	240	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18N/01E-14R01																		
05/20/74 1430	5050 5050	67.0F 19.4C	7.3	280 300	--	--	--	--	--	--	--	5.7 .16	--	.00	--	--	126	--
18N/02E-12G01																		
05/20/74 1350	5050	62.0F 16.7C	7.0	285	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18N/02E-14K01																		
05/20/74 1410	5050	69.0F 20.5C	7.3	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18N/03E-25J01																		
05/21/74 0845	5050	66.0F 18.9C	7.1	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18N/03E-29P01																		
05/20/74 1330	5050	67.0F 19.4C	7.3	205	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18N/03E-33N01																		
05/20/74 1310	5050 5050	74.0F 23.3C	7.5 8.3	235 258	18 .90 32	16 1.32 47	12 .52 18	3.2 .08 3	0 .00	156 2.56 93	4.4 .09 3	3.8 .11 4	.1 .00	.00	--	192 134	112 0	0.5
18N/04E-07A01																		
05/21/74 0915	5050 5050	65.0F 18.3C	7.0 8.2	140 161	--	--	--	--	0 .00	75 1.23 85	--	3.5 .10 7	7.0 .11 8	--	--	--	--	58
18N/04E-21P01																		
05/21/74 0830	5050	65.0F 18.3C	7.3	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
PERCENT REACTANCE VALUE																		
SUM																		
.....																		
CENTRAL VALLEY REGION																		
SACRAMENTO VALLEY																		
BUTTE COUNTY																		
5-21																		
5-21.03																		
16N/04E-28M01																		
05/21/74	5050	71.0F	7.8	1450	29	5.1	305	2.4	0	114	430	156	3.1	3.20	--	1020	91	
0805	5050	21.6C	8.2	1640	1.45	.42	13.27	.06	.00	1.87	8.95	4.40	.05	--	990	0	13.7	
				10	3	87				12	59	29						
05/21/74	5050	64.0F	7.3	230	--	--	--	--	--	--	--	--	--	--	--	--	--	
1335		17.8C																
05/21/74	5050	69.0F	7.2	125	8.8	7.5	9.7	.6	0	83	4.3	1.4	1.2	.00	--	140	53	
0950	5050	20.5C	8.2	142	.44	.62	.42	.02	.00	1.36	.09	.04	.02	--	74	0	0.6	
				29	41	28	1			90	6	3	1					
05/22/74	5050	65.0F	7.1	720	--	--	--	--	--	--	--	--	--	--	--	--	--	
1315		18.3C																
05/23/74	5050	64.0F	7.2	350	29	24	10	1.3	3.0	170	20	7.2	15.0	.00	--	255	168	
1005	5050	17.8C	8.5	365	1.45	1.97	.44	.03	.10	2.79	.42	.20	.24	--	193	27	0.3	
				37	51	11	1	3	74	11	5	6						
05/21/74	5050	66.0F	7.3	285	--	--	--	--	--	--	--	--	--	--	--	--	--	
1415		18.9C																
05/21/74	5050	76.0F	7.3	625	--	--	--	--	0	278	--	72	4.2	--	--	275		
1345	5050	24.4C	8.3	713					.00	4.56		2.03	.07	--				
										68		30	1					
05/21/74	5050	64.0F	6.8	150	--	--	--	--	--	--	--	--	--	--	--	--	--	
1225		17.8C																
05/23/74	5050	64.0F	7.1	850	71	63	26	1.1	25	365	51	15	75.0	.00	--	541	431	
0925	5050	17.8C	8.5	864	3.54	5.18	1.13	.03	.83	5.98	1.06	.42	1.21	--	507	96	0.5	
				36	52	11			9	63	11	4	13					
05/22/74	5050	64.0F	6.9	385	--	--	--	--	0	198	--	10	46.0	--	--	283		
1230	5050	17.8C	8.2	591					.00	3.25		.28	.74	--				
										76		7	17					
05/22/74	5050	64.0F	6.9	1180	--	--	--	--	0	377	--	25	153	--	--	626		
1300	5050	17.8C	8.3	1180					.00	6.18		.71	2.47	--				
										66		8	26					
05/21/74	5050	70.0F	6.8	200	--	--	--	--	--	--	--	--	--	--	--	--	--	
1245		21.1C																
05/23/74	5050	66.0F	7.0	400	--	--	--	--	0	198	--	5.7	43.0	--	--	173		
0815	5050	18.9C	8.3	419					.00	3.25		.16	.69	--				
										79		4	17					
05/23/74	5050	66.0F	7.1	195	--	--	--	--	--	--	--	--	--	--	--	--	--	
0825		18.9C																
01/14/74	5701	68.0F			21	11	10	1.9	.1	131	3.0	5.0	4.0	--	.1	187	98	
	5701	20.0C	7.2	227	1.05	.90	.44	.05	.00	2.15	.06	.14	.06	--	67.0	187	0	
				43	37	18	2			89	2	6	2				0.4	
10/19/73	5701	66.0F			20	10	10	1.2	.5	123	3.0	6.0	4.0	--	.1	175	92	
	5701	18.9C	7.8	212	1.00	.82	.44	.03	.02	2.02	.06	.17	.06	--	60.0	175	0	
				44	36	19	1		1	87	3	7	3				0.5	
10/18/73	5701	60.0F			19	10	12	1.0	.5	119	4.0	7.0	4.0	--	.1	172	88	
	5701	15.5C	7.8	214	.95	.82	.52	.03	.02	1.95	.08	.20	.06	--	56.0	172	0	
				41	35	22	1		1	84	3	9	3				0.6	
10/19/73	5701	60.0F			30	15	14	1.3	.3	148	8.0	18	22.0	--	.1	228	136	
	5701	15.5C	7.5	323	1.50	1.23	.61	.03	.01	2.43	.17	.51	.35	--	46.0	227	15	
				45	36	18	1			70	5	15	10				0.5	

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER																	
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3						8	F	TDS SUM	TM NCH	SAR														
CENTRAL VALLEY REGION																																					
SACRAMENTO VALLEY																																					
BUTTE COUNTY																																					
5-21.03																																					
22N/01E-24801																																					
01/14/74	5701	63.0F			23	8.0	10	1.5	.2	124	3.0	7.0	2.0	--	.1	177	92																				
	5701	17.2C	7.4	210	1.15	.66	.44	.04	.01	2.03	.06	.20	.03		60.0	176	0	0.5																			
22N/01E-24N01																																					
10/19/73	5701	60.0F			21	13	12	1.3	.4	136	4.0	12	2.0	--	.1	181	104																				
	5701	15.5C	7.7	247	1.05	1.07	.52	.03	.01	2.23	.08	.34	.03		48.0	181	0	0.5																			
22N/01E-25A01																																					
10/19/73	5701	59.0F			22	11	11	1.4	.4	126	5.0	11	4.0	--	.1	175	100																				
	5701	15.0C	7.7	238	1.10	.90	.48	.04	.01	2.07	.10	.31	.06		47.0	175	0	0.5																			
22N/01E-25C01																																					
01/14/74	5701	60.0F			22	10	12	1.9	.2	129	4.0	9.0	2.0	--	.1	174	96																				
	5701	15.5C	7.3	228	1.10	.82	.52	.05	.01	2.11	.08	.25	.03		49.0	174	0	0.5																			
22N/01E-31Q01																																					
01/14/74	5701	70.0F			14	4.0	32	3.0	.2	134	1.0	8.0	.0	--	.1	183	52																				
	5701	21.1C	7.4	233	.70	.33	1.39	.08	.01	2.20	.02	.23	.00		55.0	183	0	1.9																			
22N/01E-35E01																																					
10/20/73	5701	58.0F			31	22	13	1.1	.4	192	10	14	9.0	.08	.1	248	168																				
	5701	14.4C	7.5	360	1.55	1.81	.57	.03	.01	3.15	.21	.39	.15		54.0	249	10	0.4																			
22N/02E-17E01																																					
05/23/74	5050	63.0F	7.0	210	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--													
	0845	17.2C																																			
22N/02E-18N01																																					
01/14/74	5701	66.0F			22	9.0	12	1.1	.2	126	4.0	5.0	2.0	--	.1	188	92																				
	5701	18.9C	7.4	213	1.10	.74	.52	.03	.01	2.07	.08	.14	.03		71.0	188	0	0.5																			
21N/01W-35C01																																					
05/22/74	5050	67.0F	7.1	560	48	35	20	1.9	15	289	19	12	8.1	.00	--	342	265																				
	5050	19.4C	8.4	552	2.40	2.88	.87	.05	.50	4.74	.40	.34	.13		--	301	2	0.5																			
23N/01W-09L01																																					
05/23/74	5050	64.0F	6.9	545	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--													
	0745	17.8C																																			
5-21.04																																					
COLUSA COUNTY																																					
13N/01E-22J01																																					
05/30/74	5050	64.0F	6.9	625	32	29	26	4.3	3.0	304	7.4	.5	1.1	.10	--	297	199																				
	5050	17.8C	8.4	507	1.60	2.38	1.13	.11	.10	4.98	.15	.01	.02		--	253	0	0.8																			
14N/01E-16K01																																					
06/03/74	5050	64.0F	7.6	585	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--													
	1220	17.8C																																			
13N/01W-06Q01																																					
05/31/74	5050	70.0F	7.1	1360	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--													
	1240	21.1C																																			
13N/01W-07A01																																					
06/03/74	5050	75.0F	7.3	1410	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--													
	0900	23.9C																																			
13N/01W-08801																																					
06/03/74	5050	68.0F	7.2	1190	92	47	65	1.3	0	216	11	255	14.0	.50	--	771	425																				
	5050	20.0C	8.2	1190	4.59	3.87	2.83	.03	.00	3.54	.23	7.19	.23		--	592	246	1.4																			
13N/01W-30F01																																					
06/03/74	5050	71.0F	7.6	430	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--													
	1045	21.6C																																			
13N/01W-36Q02																																					
05/30/74	5050	72.0F	7.4	500	30	21	42	2.6	0	198	9.5	54	3.8	.30	--	320	161																				
	5050	22.2C	8.3	518	1.50	1.73	1.83	.07	.00	3.25	.20	1.52	.06		--	261	0	1.4																			

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER					MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	PERCENT REACTANCE VALUE	B	F	TDS SUM	TH NCH	SAR					
.....																							
	5			CENTRAL VALLEY REGION																			
	5-21			SACRAMENTO VALLEY																			
	5-21.04			COLUSA COUNTY																			
06/03/74 1055	5050	13N/02W-26A01	M	72.0F 22.2C	7.3	740	--	--	--	--	--	--	--	--	--	--	--	--					
06/03/74 1100	5050	13N/02W-26B01	M	76.0F 24.4C	7.6	565	--	--	--	--	--	--	--	--	--	--	--	--					
06/03/74 1155	5050	14N/01W-02D01	M	66.0F 18.9C	7.4	1010	--	--	--	--	--	--	--	--	--	--	--	--					
05/31/74 1140	5050	14N/02W-29J01	M	69.0F 20.5C	7.3	290	--	--	--	--	--	--	--	--	--	--	--	--					
05/31/74 1220	5050	14N/02W-35P01	M	69.0F 20.5C	7.5	560	--	--	--	--	--	--	--	--	--	--	--	--					
05/31/74 1045	5050	14N/03W-11H01	M	67.0F 19.4C	7.2	510 520	51 2.54 47	16 1.32 25	34 1.48 28	1.3 .03 1	0 .00 201 63	44 .92 18	29 .82 16	12.0 .19 4	.10	--	321 286	193 29	1.1				
05/31/74 1010	5050	15N/02W-32R01	M	67.0F 19.4C	7.2	800	--	--	--	--	--	--	--	--	--	--	--	--					
05/31/74 0930	5050	15N/03W-01R01	M	69.0F 20.5C	7.5	1040	--	--	--	--	--	--	--	--	--	--	--	--					
05/31/74 0955	5050	15N/03W-26L01	M	75.0F 23.9C	7.3	660	--	--	--	--	--	--	--	--	--	--	--	--					
05/29/74 1145	5050	16N/01W-19F03	M	66.0F 18.9C	7.9	375	--	--	--	--	--	--	--	--	--	--	--	--					
05/29/74 1000	5050	16N/01W-29J01	M	64.0F 17.8C	7.6 8.5	495 503	37 1.85 40	16 1.32 28	34 1.48 32	.8 .02 2	3.0 .10 2	309 5.06 91	5.8 .12 2	10 .28 5	.2 .00	.20	--	273 259	210 0	1.2			
05/29/74 1215	5050	16N/02W-04H01	M	67.0F 19.4C	7.6	675	--	--	--	--	--	--	--	--	--	--	--	--					
05/29/74 1115	5050	16N/02W-25B02	M	65.0F 18.3C	7.4	820	--	--	--	--	--	--	--	--	--	--	--	--					
05/29/74 1130	5050	16N/02W-25B03	M	67.0F 19.4C	7.4 8.7	950 970	26 1.30 12	28 2.30 21	164 7.13 66	2.1 .05 9	29 .97 72	479 7.85 11	57 1.19 7	25 .71 2	12.0 .19	.30	--	607 579	179 0	5.3			
05/29/74 1100	5050	16N/02W-35B01	M	69.0F 20.5C	7.5	690	--	--	--	--	--	--	--	--	--	--	--	--					
05/29/74 0830	5050	17N/01W-06R01	M	60.0F 15.5C	7.7	325	--	--	--	--	--	--	--	--	--	--	--	--					
05/29/74 1340	5050	17N/02W-12C01	M	66.0F 18.9C	7.7	465	--	--	--	--	--	--	--	--	--	--	--	--					
05/29/74 1230	5050	17N/02W-30J02	M	65.0F 18.3C	7.4	1720	--	--	--	--	--	--	--	--	--	--	--	--					

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					
					CA	MG	NA	K	CO3	PERCENT REACTANCE	NO3	CL	NO3	B	F	TDS SUM	TH NCH	SAR		
CENTRAL VALLEY REGION SACRAMENTO VALLEY																				
COLUSA COUNTY																				
05/31/74 0830	5050	5-21.04 17N/03W-32M01	M	64.0F 17.8C	7.4	600	--	--	--	--	--	--	--	--	--	--	--	--	--	
05/31/74 0850	5050	17N/03W-33R01	M	72.0F 22.2C	7.4	1100	--	--	--	--	--	--	--	--	--	--	--	--	--	
SUTTER COUNTY																				
07/23/74 1345	5050	5-21.05 11N/03E-14R01	M	64	F	8.1	1050	35	11	185	4.5	14	263	8.2	197	.0	.20	--	618	132
	5050		18	C	8.5	1140	1.75 16	.90 8	8.05 74	.12 1	.47 4	4.31 41	.17 2	5.56 53	.00	--	584	0	7.0	
07/23/74 0945	5050	11N/03E-24D01	M	64	F	7.9	600	46	31	53	1.8	28	335	12	12	.3	.10	--	370	242
	5050		18	C	8.5	625	2.30 32	2.55 35	2.31 32	.05 1	.93 13	5.49 78	.25 4	.34 5	.00	--	349	0	1.5	
08/06/74 1450	5050	11N/04E-13M01	M	68	F	7.9	275	--	--	23	--	0	126	--	19	--	--	--	88	--
	5050		20	C	8.2	280	--	--	1.00 36	--	.00	2.07	--	.54	--	--	--	--	1.1	
07/23/74 0900	5050	11N/04E-23P02	M	68	F	7.9	310	23	12	25	1.2	0	151	3.4	18	9.2	.10	--	218	106
	5050		20	C	8.3	309	1.15 35	.99 30	1.09 33	.03 1	.00	2.47 77	.07 2	.51 16	.15 5	--	166	0	1.1	
07/26/74 1415	5050	12N/02E-06D01	M	66	F	8.1	510	--	--	84	--	8.0	289	--	18	--	--	--	60	--
	5050		19	C	8.6	560	--	--	3.65 75	--	.27	4.74	--	.51	--	--	--	--	4.7	
08/07/74 1430	5050	12N/02E-26Q01	M	67	F	8.1	900	--	--	173	--	9.0	285	--	160	--	--	--	85	--
	5050		19	C	8.5	988	--	--	7.53 82	--	.30	4.67	--	4.51	--	--	--	--	8.2	
08/13/74 1040	5050	12N/03E-26R01	M	65	F	7.7	850	69	28	71	2.8	0	236	13	163	.0	.20	--	507	289
	5050		18	C	8.2	919	3.44 39	2.30 26	3.09 35	.07 1	.00	3.87 44	.27 3	4.60 53	.00	--	463	94	1.8	
07/23/74 1045	5050	12N/04E-05R05	M	68	F	7.9	240	--	--	23	--	0	138	--	6.1	--	--	--	69	--
	5050		20	C	7.9	237	--	--	1.00 42	--	.00	2.26	--	.17	--	--	--	--	1.2	
08/07/74 1350	5050	13N/02E-17A01	M	66	F	7.9	1300	34	37	211	2.6	12	286	20	298	.2	.30	--	785	236
	5050		19	C	8.4	1450	1.70 12	3.04 22	9.18 66	.07 1	.40 3	4.69 34	.42 3	8.40 60	.00	--	756	0	6.0	
07/24/74 0830	5050	13N/03E-10M02	M	65	F	7.7	600	46	33	35	1.2	15	247	24	55	.1	.10	--	354	253
	5050		18	C	8.4	650	2.30 35	2.71 41	1.52 23	.03 8	.50 61	4.05 61	.50 8	1.55 23	.00	--	331	23	1.0	
07/24/74 0730	5050	13N/03E-15C03	M	68	F	7.5	2250	--	--	99	--	0	248	--	726	--	--	--	1120	--
	5050		20	C	7.7	2540	--	--	4.31 16	--	.00	4.06	--	20.47	--	--	--	--	1.3	
07/23/74 1200	5050	13N/04E-24N01	M	68	F	7.5	275	14	16	19	.7	0	107	6.4	26	7.3	.00	--	197	101
	5050		20	C	8.1	280	.70 24	1.32 46	.83 29	.02 1	.00	1.75 64	.13 5	.73 27	.12 4	--	142	14	0.8	
07/23/74 1300	5050	13N/05E-07Q02	M	67	F	7.1	590	--	--	27	--	4.0	233	--	17	--	--	--	278	--
	5050		19	C	8.4	647	--	--	1.17 17	--	.13	3.82	--	.48	--	--	--	--	0.7	
08/07/74 1250	5050	14N/02E-17A03	M	66	F	7.9	360	--	--	34	--	4.0	206	--	5.8	--	--	--	120	--
	5050		19	C	8.4	370	--	--	1.48 38	--	.13	3.38	--	.16	--	--	--	--	1.4	
07/24/74 0915	5050	14N/03E-20M03	M	67	F	7.7	890	--	--	47	--	0	341	--	104	--	--	--	406	--
	5050		19	C	8.3	964	--	--	2.04 20	--	.00	5.59	--	2.93	--	--	--	--	1.0	
08/07/74 1100	5050	15N/01E-14B01	M	72	F	7.3	185	--	--	11	--	0	53	--	8.6	--	--	--	59	--
	5050		22	C	7.9	184	--	--	.48 29	--	.00	.87	--	.24	--	--	--	--	0.6	

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				TDS SUM	TH NCH	SAR
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	SI02			
*****																		
5		CENTRAL VALLEY REGION																
5-21		SACRAMENTO VALLEY																
5-21.05		SUTTER COUNTY																
07/24/74 1030	5050 5050	M	66 F 7.7 850	--	--	41	--	16	458	--	35	--	--	--		433	0.9	
			19 C 8.5 915			1.78 17		.53	7.51		.99		--					
08/07/74 0830	5050 5050	M	66 F 7.5 580	--	--	19	--	10	286	--	13	--	--	--		291	0.5	
			19 C 8.6 606			.83 12		.33	4.69		.37		--					
08/07/74 1000	5050 5050	M	67 F 7.3 600	--	--	29	--	0	148	--	79	--	--	--		241	0.8	
			19 C 8.3 652			1.26 21		.00	2.43		2.23		--					
08/07/74 0915	5050 5050	M	7.7 450	--	--	14	--	10	277	--	5.2	--	--	--		228	0.4	
			8.5 476			.61 12		.33	4.54		.15		--					
5-21.06		YUBA COUNTY																
07/01/74 1240	5050 5050	M	64 F 7.6 760	--	--	92	--	6.0	340	--	28	--	--	--		244	2.6	
			18 C 8.4 845			4.00 45		.20	5.57		.79		--					
07/02/74 0800	5050 5050	M	67 F 7.9 315	--	--	20	--	0	123	--	32	--	--	--		114	0.8	
			19 C 8.2 315			.87 28		.00	2.02		.90		--					
07/01/74 1400	5050 5050	M	68 F 6.9 1000	--	--	28	--	0	78	--	315	--	--	--		498	0.5	
			20 C 7.9 1250			1.22 11		.00	1.28		8.88		--					
07/01/74 1430	5050 5050	M	7.1 185			12		8.9	12		.4	0	94	4.0	6.9	5.2	165	0.6
			8.1 190			.60 32		.73 39	.52 28		.01 1	.00	1.54 81	.08 4	.19 10	.08 4	96	
07/01/74 1330	5050 5050	M	68 F 7.2 1300	--	--	98	--	0	88	--	44	--	366	4.5	.60	924	322	3.7
			20 C 8.1 1500			4.89 38		1.48 11	6.53 50		.08 1	.00	1.44 11	.92 7	10.32 81	.07 1	727	
06/22/74	5701 5701	M	67 F 7.4 408	--	--	34	--	25	13	--	1.2	--	.4	207	27	10	14.0	0.4
			19 C 7.4 408			1.70 39		2.06 47	.57 13		.03 1	.01	3.39 76	.56 13	.28 6	.23 5	279 18	
05/04/74	5701 5701	M	64 F 7.5 607	--	--	60	--	31	21	--	2.2	--	.5	279	45	29	11.0	0.5
			18 C 7.5 607			2.99 46		2.55 39	.91 14		.06 1	.02	4.57 70	.94 14	.82 13	.18 3	390 48	
07/25/74	5701 5701	M	63 F 7.3 261	--	--	23	--	15	6.0	--	1.0	--	.1	107	26	9.0	7.0	0.2
			17 C 7.3 261			1.15 43		1.23 46	.26 10		.03 1	.00	1.75 66	.54 20	.25 9	.11 4	183 32	
07/29/74	5701 5701	M	64 F 7.2 573	--	--	50	--	35	19	--	2.2	--	.3	290	15	40	.0	0.5
			18 C 7.2 573			2.50 40		2.88 46	.83 13		.06 1	.01	4.75 77	.31 5	1.13 18	.00	351 352	
02/07/74	5701 5701	M	66 F 7.5 527	--	--	46	--	23	25	--	4.7	--	.5	236	15	44	.0	0.8
			19 C 7.5 527			2.30 43		1.89 35	1.09 20		.12 2	.02	3.87 71	.31 6	1.24 23	.00	327 327	
05/04/74	5701 5701	M	63 F 7.7 417	--	--	41	--	19	15	--	2.2	--	.6	204	16	20	4.0	0.5
			17 C 7.7 417			2.05 47		1.56 36	.65 15		.06 1	.02	3.34 77	.33 8	.56 13	.06 1	258 258	
07/02/74 1530	5050 5050	M	67 F 7.7 270	--	--	16	--	0	135	--	5.6	--	--	--		105	0.7	
			19 C 8.2 277			.70 25		.00	2.21		.16		--					
05/04/74	5701 5701	M	66 F 7.8 335	--	--	38	--	14	11	--	1.4	--	.7	186	13	5.0	9.0	0.4
			19 C 7.8 335			1.90 53		1.15 32	.48 13		.04 1	.02	3.05 84	.27 7	.14 4	.15 4	231 231	
05/04/74	5701 5701	M	64 F 7.6 330	--	--	39	--	13	11	--	1.5	--	.4	182	17	5.0	5.0	0.4
			18 C 7.6 330			1.95 55		1.07 30	.48 14		.04 1	.01	2.98 84	.35 10	.14 4	.08 2	236 235	



TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR						
CENTRAL VALLEY REGION																								
SACRAMENTO VALLEY																								
YUBA COUNTY																								
07/25/74	5701	64	F			33	19	14	1.7	.7	172	38	9.0	3.0	--	.0	247	162						
	5701	18	C	7.8	366	1.65 43	1.56 40	.61 16	.04 1	.02 1	2.82 72	.79 20	.25 6	.05 1	--	44.0	247	19	0.5					
15N/04E-18D01																								
02/07/74	5701	67	F			42	26	15	2.0	.4	236	35	13	7.0	--	.1	302	212						
	5701	19	C	7.4	428	2.10 43	2.14 43	.65 13	.05 1	.01	3.87 76	.73 14	.37 7	.11 2	--	45.0	301	18	0.4					
15N/04E-21D01																								
07/02/74 1200	5050	66	F	7.7	540	--	--	18	--	8.0	272	--	4.2	--	--	--	289							
	5050	19	C	8.4	578			.78 12		.27	4.46		.12	--	--	--								0.5
15N/04E-23Q01																								
07/02/74 0915	5050			7.7	200	16	9.0	13	.6	0	123	.2	3.6	.0	.00	--	137	76						
	5050			8.3	197	.80 38	.74 35	.57 27	.02 1	.00	2.02 95	.00	.10 5	.00	--	--	103	0	0.6					
15N/04E-31A01																								
07/02/74 0830	5050	68	F	7.9	260	--	--	--	--	--	--	--	--	--	--	--	171							
	5050	20	C		264																			
15N/05E-19N01																								
07/02/74 1000	5050	70	F	7.5	225	12	7.8	23	1.7	0	81	6.4	24	5.7	.00	--	179	62						
	5050	21	C	8.1	243	.60 26	.64 28	1.00 44	.04 2	.00	1.33 60	.13 6	.68 30	.09 4	--	--	120	0	1.3					
16N/03E-24M02																								
07/02/74 1315	5050	64	F	7.5	480	--	--	19	--	8.0	257	--	10	--	--	--	242							
	5050	18	C	8.4	516			.83 15		.27	4.21		.28	--	--	--								0.5
16N/04E-09D01																								
07/02/74 1345	5050	69	F	7.1	390	31	23	16	.5	3.0	137	17	41	11.0	.00	--	280	174						
	5050	21	C	8.4	424	1.55 37	1.89 46	.70 17	.01	.10 2	2.25 56	.35 9	1.16 29	.18 4	--	--	210	55	0.5					
16N/04E-27F02																								
07/02/74 1430	5050	69	F	7.3	185	--	--	22	--	0	109	--	2.0	--	--	--	47							
	5050	21	C	8.1	192			.96 51		.00	1.79		.06	--	--	--								1.4
5-21.07																								
PLACER COUNTY																								
06/24/74 0845	5050			7.9	305	42	10	30	.9	2.0	145	2.5	22	10.0	.10	--	214	94						
	5050			8.5	330	2.10 49	.82 19	1.31 31	.02	.07 2	2.38 73	.05 2	.62 19	.16 5	--	--	191	24	1.1					
10N/06E-05K01																								
06/26/74 0745	5050	68	F	7.1	185	--	--	16	--	0	80	--	13	--	--	--	60							
	5050	20	C	7.8	183			.70 37		.00	1.31		.37	--	--	--								0.9
10N/06E-10D01																								
08/19/74 1000	5050	68	F	6.7	450	34	21	28	1.5	0	193	9.9	33	18.0	.00	--	320	172						
	5050	20	C	6.7	461	1.70 36	1.73 37	1.22 26	.04 1	.00	3.16 69	.21 5	.93 20	.29 6	--	--	240	14	0.9					
11N/05E-23B01																								
06/26/74 1000	5050	71	F	7.3	280	--	--	21	--	0	124	--	19	--	--	--	98							
	5050	22	C	7.9	281			.91 32		.00	2.03		.54	--	--	--								0.9
11N/05E-29E01																								
07/01/74 1100	5050			7.9	260	--	--	25	--	0	129	--	16	--	--	--	82							
	5050			8.2	271			1.09 40		.00	2.11		.45	--	--	--								1.2
11N/06E-16M01																								
06/25/74 1300	5050	69	F	7.1	325	13	6.4	43	1.2	0	88	9.0	42	16.0	.70	--	265	59						
	5050	21	C	8.1	349	.65 21	.53 17	1.87 61	.03 1	.00	1.44 47	.19 6	1.18 38	.26 8	--	--	175	0	2.4					
12N/05E-12Q01																								
06/25/74 1530	5050	68	F	7.3	245	--	--	17	--	0	101	--	16	--	--	--	89							
	5050	20	C	7.9	247			.74 29		.00	1.66		.45	--	--	--								0.8
12N/05E-17H01																								
06/26/74 1245	5050	69	F	7.5	185	--	--	18	--	0	91	--	6.7	--	--	--	55							
	5050	21	C	8.0	172			.78 41		.00	1.49		.19	--	--	--								1.1
12N/05E-34K01																								
06/26/74 1115	5050	70	F	7.5	255	--	--	17	--	0	134	--	8.6	--	--	--	100							
	5050	21	C	8.0	249			.74 27		.00	2.20		.24	--	--	--								0.7

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR
CENTRAL VALLEY REGION																	
SACRAMENTO VALLEY																	
PLACER COUNTY																	
S-21.07 12N/06E-16D02																	
06/25/74	5050	67	F 7.1	810	27	22	121	.9	0	161	117	103	23.0	1.40	--	584	158
1445	5050	19	C 8.3	900	1.35 16	1.81 21	5.26 62	.02 0	.00	2.64 32	2.44 29	2.90 35	.37 4	--	494	26	4.2
SACRAMENTO COUNTY																	
S-21.08 05N/05E-10C02																	
06/18/74	5050	66	F 7.7	355	54	.1	27	1.5	8.0	193	4.8	12	.1	.00	--	230	136
0740	5050	19	C 8.6	366	2.69 69	.01	1.17 30	.04 1	.27 7	3.16 82	.10 3	.34 9	.00	--	202	0	1.0
05N/06E-20J03																	
06/13/74	5050	68	F 7.5	240	--	--	24	--	0	136	--	8.0	--	--	--	71	1.2
1215	5050	20	C 8.1	240	--	--	1.04 42	--	.00	2.23	--	.23	--	--	--	--	--
05N/07E-21D01																	
06/13/74	5050	68	F 6.9	260	--	--	16	--	0	107	--	21	--	--	--	95	0.7
1300	5050	20	C 7.7	269	--	--	.70 27	--	.00	1.75	--	.59	--	--	--	--	--
06N/05E-27G01																	
06/13/74	5050	68	F 7.7	285	--	--	18	--	0	143	--	3.5	--	--	--	91	0.8
1000	5050	20	C 8.1	249	--	--	.78 30	--	.00	2.34	--	.10	--	--	--	--	--
06N/06E-05E01																	
06/14/74	5050	68	F 7.5	210	--	--	12	--	0	118	--	4.5	--	--	--	84	0.6
0845	5050	20	C 8.2	208	--	--	.52 24	--	.00	1.93	--	.13	--	--	--	--	--
06N/07E-23A01																	
06/12/74	5050	71	F 7.3	198	5.7	3.9	28	3.0	0	68	28	7.6	5.8	.10	--	220	30
1200	5050	22	C 7.9	205	.28 15	.32 17	1.22 64	.08 4	.00	1.11 56	.58 29	.21 11	.09 5	74.0	190	0	2.2
06N/07E-28M01																	
06/14/74	5050	69	F 7.1	162	--	--	15	--	0	66	--	6.9	--	--	--	41	1.0
0750	5050	21	C 8.1	156	--	--	.65 44	--	.00	1.08	--	.19	--	--	--	--	--
06N/08E-21N02																	
06/13/74	5050	71	F 7.1	180	--	--	25	--	0	71	--	6.6	--	--	--	19	2.5
1345	5050	22	C 8.1	178	--	--	1.09 74	--	.00	1.16	--	.19	--	--	--	--	--
07N/05E-07C01																	
06/12/74	5050	67	F 7.7	230	25	14	20	2.3	0	137	1.6	34	1.1	.00	--	238	118
1330	5050	19	C 7.6	344	1.25 38	1.15 35	.87 26	.06 2	.00	2.25 69	.03 1	.96 29	.02 1	31.0	196	8	0.8
07N/06E-01A01																	
06/24/74	5050	70	F 7.7	210	14	7.5	19	2.7	0	109	8.2	6.2	.5	.00	--	178	66
1330	5050	21	C 8.2	213	.70 32	.62 28	.83 37	.07 3	.00	1.79 84	.17 8	.17 8	.01	--	112	0	1.0
07N/06E-20J03																	
06/14/74	5050	69	F 7.7	220	--	--	16	--	0	130	--	5.8	--	--	--	78	0.8
0915	5050	21	C 8.2	221	--	--	.70 31	--	.00	2.13	--	.16	--	--	--	--	--
08N/05E-30A01																	
06/14/74	5050	68	F 7.7	285	--	--	13	--	0	144	--	13	--	--	--	118	0.5
1130	5050	20	C 8.1	289	--	--	.57 19	--	.00	2.36	--	.37	--	--	--	--	--
08N/06E-09Q04																	
06/14/74	5050	68	F 7.5	140	--	--	8.6	--	0	62	--	3.7	--	--	--	48	0.5
1400	5050	20	C 8.0	141	--	--	.37 28	--	.00	1.02	--	.10	--	--	--	--	--
08N/06E-28P04																	
08/06/74	5050	71	F 7.7	195	14	7.5	16	1.5	0	94	3.8	7.2	11.0	.00	--	158	66
1200	5050	22	C 8.2	199	.70 34	.62 30	.70 34	.04 2	.00	1.54 77	.08 4	.20 10	.18 9	--	107	0	0.9
08N/07E-18E01																	
06/14/74	5050	69	F 7.7	165	12	7.3	11	2.2	0	98	.8	4.9	.8	.00	--	145	61
1245	5050	21	C 8.0	168	.60 34	.60 34	.48 28	.06 3	.00	1.61 90	.02 1	.14 8	.01 1	--	87	0	0.6
09N/05E-28K01																	
06/17/74	5050	68	F 7.5	500	--	--	19	--	0	185	--	64	--	--	--	208	0.6
0930	5050	20	C 8.3	536	--	--	.83 17	--	.00	3.03	--	1.80	--	--	--	--	--
09N/06E-02P01																	
06/17/74	5050	69	F 7.5	275	--	--	11	--	0	142	--	11	--	--	--	117	0.4
1315	5050	21	C 8.3	280	--	--	.48 17	--	.00	2.33	--	.31	--	--	--	--	--

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR
CENTRAL VALLEY REGION																		
SACRAMENTO VALLEY																		
SACRAMENTO COUNTY																		
5-21.08																		
10N/04E-36801																		
06/17/74	5050	67	F	7.7	450	--	--	24	--	6.0	214	--	36	--	--	--	190	0.6
1015	5050	19	C	8.5	492	--	--	1.04 21	--	.20	3.51	--	1.02	--	--	--	--	--
10N/05E-14002																		
06/17/74	5050	67	F	7.1	335	--	--	18	--	0	150	--	26	--	--	--	131	0.7
1100	5050	19	C	8.2	353	--	--	.78 23	--	.00	2.46	--	.73	--	--	--	--	--
10N/05E-34C01																		
08/13/74	5050	69	F	7.5	195	10	8.3	19	1.0	0	90	1.1	12	6.2	.00	--	182	59
1430	5050	21	C	7.5	195	.50 25	.68 33	.83 41	.03 1	.00	1.48 76	.02 1	.34 18	.10 5	--	--	102	0
10N/06E-19K02																		
08/13/74	5050	68	F	7.1	350	22	16	26	1.1	0	135	2.1	38	9.3	.00	--	269	121
1330	5050	20	C	7.2	369	1.10 31	1.32 37	1.13 32	.03 1	.00	2.21 64	.04 1	1.07 31	.15 4	--	--	181	11
10N/07E-20002																		
06/17/74	5050	68	F	7.1	500	--	--	83	--	2.0	154	--	70	--	--	--	69	4.3
1230	5050	20	C	8.4	545	--	--	3.61 72	--	.07	2.52	--	1.97	--	--	--	--	--
5-21.09																		
07N/04E-33L01																		
08/08/74	5050	63	F	8.3	950	--	--	185	--	0	242	--	227	--	--	--	129	7.1
0720	5050	17	C	8.1	1140	--	--	8.05 76	--	.00	3.97	--	6.40	--	--	--	--	--
08N/01E-07R01																		
08/19/74	5050	65	F	7.9	780	50	50	65	.7	0	392	66	51	10.0	.60	--	512	330
1230	5050	18	C	7.7	873	2.50 26	4.11 43	2.83 30	.02	.00	6.42 68	1.37 15	1.44 15	.16 2	--	--	486	10
08N/01E-11P01																		
08/14/74	5050	71	F	8.3	500	31	36	31	1.7	0	282	23	19	14.0	.20	--	303	224
0930	5050	22	C	8.0	547	1.55 26	2.96 50	1.35 23	.04 1	.00	4.62 79	.48 8	.54 9	.23 4	--	--	295	0
08N/02E-14M03																		
08/08/74	5050	65	F	7.9	900	--	--	72	--	0	501	--	41	--	--	--	390	1.6
0950	5050	18	C	8.3	961	--	--	3.13 29	--	.00	8.21	--	1.16	--	--	--	--	--
08N/03E-08G01																		
08/13/74	5050			8.1	750	32	58	55	1.3	0	386	69	42	2.1	.60	--	479	321
1545	5050			7.9	818	1.60 18	4.77 54	2.39 27	.03	.00	6.33 70	1.44 16	1.18 13	.03	--	--	450	2
08N/04E-06C01																		
08/14/74	5050	67	F	8.1	1300	29	70	155	2.6	0	374	186	147	.0	2.60	--	805	363
0800	5050	19	C	7.9	1372	1.45 10	5.76 41	6.74 48	.07	.00	6.13 43	3.87 27	4.15 29	.00	--	--	776	54
08N/04E-16N08																		
08/08/74	5050	67	F	7.9	960	--	--	161	--	0	303	--	166	--	--	--	150	5.7
0815	5050	19	C	8.2	1040	--	--	7.00 70	--	.00	4.97	--	4.68	--	--	--	--	--
09N/01E-34N01																		
08/08/74	5050	69	F	8.3	720	--	--	62	--	0	381	--	47	--	--	--	298	1.6
1215	5050	21	C	8.3	794	--	--	2.70 31	--	.00	6.24	--	1.33	--	--	--	--	--
09N/02E-10E01																		
08/08/74	5050			8.1	560	--	--	54	--	9.0	274	--	43	--	--	--	204	1.6
1530	5050			8.5	612	--	--	2.35 37	--	.30	4.49	--	1.21	--	--	--	--	--
09N/02E-32G01																		
08/08/74	5050	66	F	7.7	850	36	60	76	.7	0	435	52	55	10.0	1.10	--	512	336
1100	5050	19	C	8.2	927	1.80 18	4.93 49	3.31 33	.02	.00	7.13 72	1.08 11	1.55 16	.16 2	--	--	505	0
09N/04E-33L01																		
08/08/74	5050	63	F	8.1	2200	123	51	238	7.0	0	238	20	577	.0	1.50	--	1280	517
0850	5050	17	C	8.1	2300	6.14 29	4.19 20	10.35 50	.18 1	.00	3.90 19	.42 2	16.27 79	.00	--	--	1135	322
10N/01E-33J01																		
08/08/74	5050	66	F	8.1	525	--	--	61	--	0	268	--	38	--	--	--	163	2.1
1300	5050	19	C	8.3	575	--	--	2.65 45	--	.00	4.39	--	1.07	--	--	--	--	--
11N/01E-06P02																		
08/09/74	5050			7.9	560	--	--	49	--	8.0	342	--	7.9	--	--	--	208	1.5
1115	5050			8.5	591	--	--	2.13 34	--	.27	5.61	--	.22	--	--	--	--	--

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY REGION SACRAMENTO VALLEY																		
S-21																		
YOLO COUNTY																		
S-21.09																		
11N/02E-29A02																		
08/08/74 1500	5050 5050	M	59 F 7.5 1200	--	--	87	--	0	545	--	136	--	--	--		535		
			15 C 8.1 1340			3.78		.00	8.93		3.84		--			1.6		
08N/01W-16G02																		
08/09/74 0825	5050 5050	M	69 F 8.1 265	--	--	14	--	0	158	--	4.8	--	--	--		108		
			21 C 8.1 266			.61		.00	2.59		.14		--		0.6			
10N/01W-02Q01																		
08/08/74 1345	5050 5050	M	8.1 365	--	--	45	--	0	211	--	8.6	--	--	--		105		
			8.2 396			1.96		.00	3.46		.24		--		1.9			
10N/02W-26P01																		
08/09/74 0910	5050 5050	M	7.9 400	--	--	25	--	0	240	--	3.7	--	--	--		161		
			8.3 421			1.09		.00	3.93		.10		--		0.9			
10N/03W-11A01																		
08/09/74 1000	5050 5050	M	7.1 800	--	--	73	--	4.0	258	--	94	--	--	--		280		
			8.4 863			3.18		.13	4.23		2.65		--		1.9			
S-21.11																		
04N/01E-01J01																		
07/11/74 1500	5050 5050	M	65 F 8.1 2300	--	--	136	--	0	259	--	449	--	--	--		675		
			18 C 8.3 1980			5.92		.00	4.25		12.66		--		2.3			
05N/01E-23R01																		
06/27/74 1215	5050 5050	M	65 F 8.2 790	5.3	9.7	155	.6	29	280	76	24	.1	1.00	--	466	53		
			18 C 8.4 761	.26	.80	6.74	.02	.97	4.59	1.58	.68	.00	--	438	0	9.3		
05N/01E-35B01																		
06/27/74 1315	5050 5050	M	64 F 7.5 1800	71	56	179	.6	0	333	91	260	61.0	.60	--	927	407		
			18 C 8.0 1600	3.54	4.61	7.79	.02	.00	5.46	1.89	7.33	.98	--	883	135	3.9		
05N/02E-15F01																		
07/11/74 1600	5050 5050	M	8.2 1150	15	26	194	.9	20	404	132	45	.0	1.40	--	651	146		
			8.7 1070	.75	2.14	8.44	.02	.67	6.62	2.75	1.27	.00	--	633	0	7.0		
06N/01E-19L02																		
07/10/74 1430	5050 5050	M	82 F 7.4 1075	--	--	80	--	0	385	--	50	--	--	--		390		
			28 C 8.3 982			3.48		.00	6.31		1.41		--		1.8			
07N/01E-08N02																		
07/10/74 1615	5050 5050	M	8.1 480	--	--	30	--	0	223	--	26	--	--	--		185		
			8.3 470			1.31		.00	3.65		.73		--		1.0			
07N/01E-14J01																		
09/05/74	5701 5701	M	66 F 7.5 952	65	72	39	2.0	1.2	567	33	20	36.0	--	.1	587	458		
			19 C 7.5 952	3.24	5.92	1.70	.05	.04	9.29	.69	.56	.58	--	40.0	587	0	0.8	
07N/01E-23A02																		
04/08/74	5701 5701	M	66 F 7.6 1113	82	89	44	1.8	1.8	675	32	31	46.0	--	.1	698	572		
			19 C 7.6 1113	4.09	7.32	1.91	.05	.06	11.06	.67	.87	.74	--	39.0	698	15	0.8	
07N/01E-23A04																		
04/08/74	5701 5701	M	67 F 7.8 609	44	33	46	2.1	1.5	343	24	18	15.0	--	.1	382	244		
			19 C 7.8 609	2.20	2.71	2.00	.05	.05	5.62	.50	.51	.24	--	30.0	382	0	1.3	
07N/01E-23G02																		
07/30/74	5701 5701	M	67 F 7.7 728	53	52	30	1.9	1.3	421	26	17	18.0	--	.1	437	344		
			19 C 7.7 728	2.64	4.28	1.31	.05	.04	6.90	.54	.48	.29	--	31.0	437	0	0.7	
07N/01E-24C02																		
06/06/74	5701 5701	M	67 F 7.7 976	74	73	39	2.3	2.0	590	30	17	29.0	--	.1	589	488		
			19 C 7.7 976	3.69	6.00	1.70	.06	.07	9.67	.62	.48	.47	--	32.0	588	0	0.8	
07/30/74																		
07/30/74	5701 5701	M	67 F 7.5 979	65	75	39	2.3	1.1	594	30	19	26.0	--	.1	583	472		
			19 C 7.5 979	3.24	6.17	1.70	.06	.04	9.74	.62	.54	.42	--	32.0	581	0	0.8	
07N/01E-36C01																		
07/11/74 1245	5050 5050	M	65 F 7.7 1300	--	--	95	--	0	627	--	32	--	--	--		507		
			18 C 8.2 1140			4.13		.00	10.28		.90		--		1.8			

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	T/MP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY REGION																		
SACRAMENTO VALLEY																		
SOLANO COUNTY																		
5-21.11 08N/01E-26F01 M																		
07/11/74 1045	5050 5050	65 18	F C	7.5 8.3	1225 1030	-- --	-- --	50 2.18 17	0 .00	577 9.46	-- --	22 .62	-- --	-- --	-- --	515		1.0
06N/01W-01E01 M																		
07/10/74 1530	5050 5050	67 19	F C	8.0 8.3	600 575	-- --	-- --	48 2.09 34	0 .00	272 4.46	-- --	43 1.21	-- --	-- --	-- --	200		1.5
06N/01W-23L01 M																		
07/10/74 1330	5050 5050	67 19	F C	7.7 8.1	650 571	-- --	-- --	50 2.18 35	0 .00	274 4.49	-- --	15 .42	-- --	-- --	-- --	205		1.5
07N/01W-28Q01 M																		
07/10/74 1745	5050 5050	68 20	F C	7.6 8.1	400 396	-- --	-- --	27 1.17 29	0 .00	200 3.28	-- --	15 .42	-- --	-- --	-- --	145		1.0
08N/01W-23A01 M																		
07/10/74 1700	5050 5050	65 18	F C	7.9 8.5	610 582	-- --	-- --	21 .91 14	8.0 .27	289 4.74	-- --	25 .71	-- --	-- --	-- --	279		0.5
5-22																		
SAN JOAQUIN VALLEY																		
SAN JOAQUIN COUNTY																		
5-22.01 01N/04E-03N01 M																		
06/20/74 0850	5050 5050	64 18	F C	7.9 8.7	1200 1280	44 2.20 17	25 2.06 16	204 8.87 67	2.6 .07 1	24 7.62 57	465 12 1	5.9 4.71 35	167 7.2 1	7.2 .12 1	1.50 -- --	733 710	215 0	6.1
01N/06E-01J01 M																		
05/15/74	5701 5701	68 20	F C	7.5	491	43 2.15 44	20 1.64 33	23 1.00 20	5.3 .14 3	.4 .01	206 3.38 67	14 .29 6	38 1.07 21	17.0 .27 5	-- 60.0	323 322	190 20	0.7
01N/06E-01M01 M																		
08/08/74	5701 5701			7.5	334	15 .75 23	6.0 .49 15	47 2.04 61	2.0 .05 2	.3 .01	127 2.08 62	6.0 .12 4	41 1.16 34	.0 .00	-- 58.0	239 238	64 0	2.6
01N/06E-02M01 M																		
04/23/74	5701 5701	70 21	F C	7.9	414	10 .50 13	1.0 .08 2	78 3.39 85	1.2 .03 1	.7 .02	133 2.18 54	1.0 .02	64 1.80 44	2.0 .03 1	-- 56.0	280 279	32 0	6.3
09/20/74																		
5701 5701		74 23	F C	7.9	457	9.0 .45 11	2.0 .16 4	81 3.52 85	1.0 .03 1	.7 .02	123 2.02 49	2.0 .04 1	72 2.03 49	2.0 .03 1	-- 60.0	290 290	33 0	6.4
01N/06E-02001 M																		
01/16/74	5701 5701	69 21	F C	7.7	429	12 .60 15	2.0 .16 4	76 3.31 81	1.3 .03 1	.4 .01	145 2.38 56	2.0 .04 1	64 1.80 43	.0 .00	-- 61.0	291 290	40 0	5.4
09/17/74																		
5701 5701				8.0	418	8.0 .40 10	5.0 .41 10	71 3.09 79	.9 .02 1	.9 .03	135 2.21 55	2.0 .04 1	61 1.72 43	.0 .00	-- 62.0	278 277	42 0	4.9
01N/06E-03C01 M																		
04/23/74	5701 5701	66 21	F C	7.9	454	14 .70 16	3.0 .25 6	81 3.52 78	1.3 .03 1	.8 .03	145 2.38 53	2.0 .04 1	71 2.00 44	4.0 .06 1	-- 62.0	310 310	46 0	5.1
09/17/74																		
5701 5701				7.8	406	8.0 .40 10	6.0 .49 13	68 2.96 76	.8 .02 1	.6 .02	141 2.31 59	3.0 .06 2	54 1.52 39	.0 .00	-- 65.0	274 275	42 0	4.4
01N/06E-04B01 M																		
04/25/74	5701 5701	70 21	F C	7.8	560	14 .70 13	5.0 .41 7	101 4.39 79	1.9 .05 1	.8 .03	196 3.21 57	2.0 .04 1	82 2.31 41	2.0 .03 1	-- 64.0	369 369	56 0	5.9
09/20/74																		
5701 5701		76 24	F C	7.7	834	19 .95 12	10 .82 11	133 5.79 76	1.9 .05 1	.6 .02	160 2.95 38	2.0 .04 1	168 4.74 61	2.0 .03	-- 62.0	487 487	90 0	6.1
01N/06E-04J01 M																		
11/07/73	4203 4203					30 1.52 21	6.7 .55 8	120 5.22 71	1.6 .04 1	--	231 3.79	4.8 .10	129 3.64	--	-- --	493	104	5.1
01N/06E-09J01 M																		
10/19/73	5110 5110			8.0	1900	85 4.24 23	26 2.14 11	284 12.35 66	2.0 .05	0 .00	390 6.39 34	43 .90 5	408 11.51 61	4.0 .06	-- --	1240 1044	318 0	6.9

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
*****																		
5																		
5-22																		
CENTRAL VALLEY REGION																		
SAN JOAQUIN VALLEY																		
5-22.01																		
SAN JOAQUIN COUNTY																		
10/30/73	0001				109	46	304	2.2	0	150	1.5	709	3.0	--	.0	1456	460	
	0001		7.4	2222	5.44 24	3.78 17	13.22 59	.06	.00	2.46 11	.03	19.99 89	.05	--	37.0	1285	338	6.2
01N/06E-10Q07 M																		
10/30/73	0001				52	20	239	2.1	0	176	.3	395	2.4	--	.1	868	214	
	0001		7.8	1420	2.59 18	1.64 11	10.40 71	.05	.00	2.88 20	.01	11.14 79	.04	--	48.0	845	68	7.1
01N/06E-11E02 M																		
11/07/73	4203				40	13	205	2.5	--	40	5.0	369	--	--	--	851	154	
	4203			832	2.00 17	1.07 9	8.92 74	.06	--	.66	.10	10.41	--	--	--			7.2
01N/06E-11K01 M																		
01/17/74	5701	67 F			16	5.0	99	1.4	.5	172	1.0	98	1.0	.42	.2	367	60	
	5701	19 C	7.6	588	.80 14	.41 7	4.31 78	.04 1	.02	2.82 50	.02	2.76 49	.02	--	60.0	367	0	5.5
01N/06E-12A01 M																		
09/18/74	5701				15	6.0	93	1.2	.7	155	1.0	101	.0	--	.3	362	62	
	5701		7.8	588	.75 14	.49 9	4.05 76	.03 1	.02	2.54 47	.02	2.85 52	.00	--	68.0	362	0	5.1
01N/06E-12C09 M																		
03/04/74	5701	69 F			27	10	29	3.4	.5	150	8.0	27	10.0	--	.1	242	107	
	5701	21 C	7.7	352	1.35 38	.82 23	1.26 36	.09 3	.02	2.46 69	.17 5	.76 21	.16 4	--	54.0	243	0	1.2
01N/06E-12C10 M																		
04/30/74	5701	72 F			14	4.0	94	2.5	.8	189	1.0	75	.0	--	.1	339	52	
	5701	22 C	7.8	528	.70 14	.33 6	4.09 79	.06 1	.03	3.10 59	.02	2.12 40	.00	--	55.0	339	0	5.7
01N/06E-12C11 M																		
09/16/74	5701	74 F			30	15	93	3.4	.9	160	1.0	150	.0	--	.1	436	137	
	5701	23 C	7.9	789	1.50 22	1.23 18	4.05 59	.09 1	.03	2.62 38	.02	4.23 61	.00	--	64.0	436	4	3.5
01N/06E-12C12 M																		
06/06/74	5701	69 F			35	13	28	3.3	.4	124	8.0	69	.0	--	.1	266	140	
	5701	21 C	7.7	432	1.75 42	1.07 26	1.22 30	.08 2	.01	2.03 49	.17 4	1.95 47	.00	--	49.0	267	39	1.0
01N/06E-12C13 M																		
09/25/74	5701	69 F			39	18	30	3.6	.4	119	7.0	95	.0	--	.1	298	171	
	5701	21 C	7.7	528	1.95 40	1.48 31	1.31 27	.09 2	.01	1.95 41	.15 3	2.68 56	.00	--	46.0	298	74	1.0
01N/06E-12C14 M																		
08/21/74	5701	73 F			10	5.0	80	2.0	.6	165	1.0	60	.0	--	.1	310	44	
	5701	23 C	7.7	449	.50 11	.41 9	3.48 78	.05 1	.02	2.70 61	.02	1.69 38	.00	--	70.0	310	0	5.2
01N/06E-12C15 M																		
08/21/74	5701	74 F			7.0	5.0	82	1.7	.6	182	1.0	50	.0	--	.1	308	40	
	5701	23 C	7.7	438	.35 8	.41 9	3.57 82	.04 1	.02	2.98 67	.02	1.41 32	.00	--	70.0	307	0	5.8
01N/06E-12K03 M																		
05/15/74	5701	68 F			41	17	44	3.3	.6	172	1.0	89	1.0	--	.1	330	172	
	5701	20 C	7.7	569	2.05 38	1.40 26	1.91 35	.08 1	.02	2.82 52	.02	2.51 47	.02	--	49.0	330	31	1.5
01N/06E-12N01 M																		
01/17/74	5701	65 F			34	9.0	85	1.9	.5	155	1.0	130	.0	--	.2	399	122	
	5701	18 C	7.7	676	1.70 27	.74 12	3.70 60	.05 1	.02	2.54 41	.02	3.67 59	.00	--	60.0	398	0	3.4
01N/06E-13B03 M																		
09/18/74	5701				28	13	76	1.7	.7	135	1.0	134	1.0	--	.1	386	125	
	5701		7.9	657	1.40 24	1.07 18	3.31 57	.04 1	.02	2.21 37	.02	3.78 62	.02	--	64.0	386	12	3.0
01N/06E-13G02 M																		
06/21/74	5050	67 F	7.9	320	--	--	28	--	0	135	--	32	--	--	--		104	
	1200	19 C	8.2	342	--	--	1.22 37	--	.00	2.21	--	.90	--	--	--			1.2
01N/06E-13J01 M																		
01/17/74	5701	66 F			30	8.0	47	2.6	.3	163	2.0	53	1.0	--	.2	277	108	
	5701	19 C	7.5	437	1.50 35	.66 15	2.04 48	.07 2	.01	2.67 63	.04 1	1.49 35	.02	--	53.0	277	0	2.0
01N/06E-13J02 M																		
09/18/74	5701				42	17	48	2.8	1.0	154	1.0	107	3.0	--	.1	355	173	
	5701		8.0	636	2.10 37	1.40 25	2.09 37	.07 1	.03	2.52 45	.02	3.02 54	.05 1	--	58.0	356	48	1.6
01N/06E-13J03 M																		
05/03/74	5701	69 F			22	3.0	37	2.3	.6	145	2.0	21	2.0	--	.2	213	66	
	5701	21 C	7.8	290	1.10 36	.25 8	1.61 53	.06 2	.02	2.38 78	.04 1	.59 19	.03 1	--	53.0	214	0	2.0

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	MC03	SO4	CL	NO3	8 SIO2	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY REGION																		
SAN JOAQUIN VALLEY																		
SAN JOAQUIN COUNTY																		
10/19/73	5110				194	68	472	8.0	0	165	24	1175	19.0	--	--	2117	762	7.4
	5110		7.6	4000	9.68 27	5.59 16	20.53 57	.20 1	.00	2.70 7	.50 1	33.14 90	.31 1	--	--	2041	629	
10/19/73	5110				204	56	462	7.0	0	165	30	1150	13.0	--	--	2080	740	7.4
	5110		7.5	4000	10.18 29	4.61 13	20.10 57	.18 1	.00	2.70 8	.62 2	32.43 90	.21 1	--	--	2003	605	
11/07/73	4203				68	21	115	2.9	--	163	10	255	--	--	--	707	260	3.1
	4203			762	3.39 33	1.78 17	5.00 49	.07 1		2.67	.23	7.19		--	--			
10/19/73	5110				208	49	276	8.0	0	384	44	683	17.0	--	--	1661	720	4.5
	5110		7.7	2830	10.38 39	4.03 15	12.01 45	.20 1	.00	6.29 24	.92 3	19.26 72	.27 1	--	--	1474	406	
10/19/73	5110				44	15	94	3.0	0	226	13	134	.0	--	--	526	170	3.1
	5110		8.1	780	2.20 29	1.23 16	4.09 54	.08 1	.00	3.70 48	.27 3	3.78 49	.00	--	--	414	0	
10/19/73	5110				42	10	68	3.0	0	232	13	84	.0	--	--	449	148	2.4
	5110		8.1	600	2.10 35	.82 14	2.96 50	.08 1	.00	3.80 59	.27 4	2.37 37	.00	--	--	334	0	
10/19/73	5110				101	39	207	6.0	0	384	37	354	26.0	--	--	1148	412	4.4
	5110		7.9	1790	5.04 29	3.21 18	9.00 52	.15 1	.00	6.29 36	.77 4	9.98 57	.42 2	--	--	959	98	
05/15/74	5701	6R	F		19	7.0	20	5.0	.4	133	8.0	8.0	3.0	--	.1	196	78	1.0
	5701	20	C	7.6	245	.95 38	.58 23	.87 34	.13 5	.01	2.18 83	.17 6	.23 9	.05 2	60.0	196	0	
05/15/74	5701	6R	F		42	19	30	4.8	.7	211	14	36	21.0	--	.1	332	186	1.0
	5701	20	C	7.7	503	2.10 41	1.56 31	1.31 26	.12 2	.02	3.46 67	.29 6	1.02 20	.34 7	60.0	331	9	
03/04/74	5701	69	F		27	12	27	3.5	.5	152	8.0	28	7.0	--	.2	242	115	1.1
	5701	21	C	7.7	343	1.35 38	.99 28	1.17 33	.09 3	.02	2.49 70	.17 5	.79 22	.11 3	55.0	243	0	
06/06/74	5701	70	F		7.0	1.0	47	1.0	.8	135	1.0	10	.0	--	.2	190	22	4.4
	5701	21	C	8.0	237	.35 14	.08 3	2.04 82	.03 1	.03 1	2.21 87	.02 1	.28 11	.00	55.0	189	0	
09/21/74	5701				27	13	34	3.2	.6	165	10	31	14.0	--	.1	275	119	1.3
	5701		7.7	398	1.35 34	1.07 27	1.48 37	.08 2	.02	2.70 67	.21 5	.87 22	.23 6	62.0	276	0		
08/06/74	5701	72	F		10	3.0	47	2.4	.8	145	.0	15	1.0	--	.2	216	40	3.3
	5701	22	C	7.9	270	.50 18	.25 9	2.04 72	.06 2	.03 1	2.38 84	.00 15	.42 1	.02 1	64.0	214	0	
08/06/74	5701	72	F		10	4.0	47	2.2	.8	147	3.0	18	1.0	--	.2	220	44	3.2
	5701	22	C	7.9	285	.50 17	.33 11	2.04 70	.06 2	.03 1	2.41 80	.06 2	.51 17	.02 1	61.0	219	0	
08/06/74	5701	71	F		13	6.0	47	2.3	.8	152	4.0	21	1.0	--	.2	230	56	2.7
	5701	22	C	7.9	306	.65 20	.49 15	2.04 63	.06 2	.03 1	2.49 78	.08 2	.59 18	.02 1	60.0	230	0	
06/06/74	5701	70	F		11	2.0	41	1.5	.6	133	1.0	12	1.0	--	.1	191	36	3.0
	5701	21	C	7.8	247	.55 22	.16 6	1.78 70	.04 2	.02 1	2.18 84	.02 1	.34 13	.02 1	55.0	190	0	
06/06/74	5701	70	F		14	3.0	40	1.5	.5	138	2.0	17	1.0	--	.1	200	48	2.5
	5701	21	C	7.7	269	.70 26	.25 9	1.74 64	.04 1	.02 1	2.26 80	.04 1	.48 17	.02 1	53.0	200	0	
09/21/74	5701	70	F		13	4.0	40	1.6	.4	131	2.0	19	2.0	--	.1	205	50	2.5
	5701	21	C	7.6	278	.65 24	.33 12	1.74 63	.04 1	.01	2.15 78	.04 1	.54 19	.03 1	58.0	204	0	

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B SI02	F	TDS SUM	TH NCH	SAR	
*****																		
	5			CENTRAL VALLEY REGION														
	5-22			SAN JOAQUIN VALLEY														
	5-22.01			SAN JOAQUIN COUNTY														
08/06/74	5701	M	71 F			10	3.0	.42	1.5	.6	138	1.0	14	2.0	--	.1	199	40
	5701		22 C	7.8	261	.50	.25	1.83	.04	.02	2.26	.02	.39	.03	--	56.0	198	0
						19	10	70	2	1	83	1	14	1				3.0
08/06/74	5701	M	72 F			17	7.0	.50	2.3	.5	160	1.0	36	3.0	--	.2	250	72
	5701		22 C	7.7	372	.85	.58	2.18	.06	.02	2.62	.02	1.02	.05	--	54.0	249	0
						23	16	59	2	1	70	1	27	1				2.6
08/06/74	5701	M	72 F			10	4.0	.50	1.8	.4	148	1.0	18	2.0	--	.2	225	40
	5701		22 C	7.6	281	.50	.33	2.18	.05	.01	2.43	.02	.51	.03	--	65.0	225	0
						16	11	71	2		81	1	17	1				3.4
06/20/74	5050	M	67 F												--	--		
	5050		19 C	8.2	225	--	--	.61	--	0	99	--	13	--	--	--		76
								.29		.00	1.62		.37			--		0.7
01/17/74	5701	M	69 F			26	5.0	.44	2.9	.4	141	12	38	.0	--	.1	252	86
	5701		21 C	7.6	374	1.30	.41	1.91	.07	.01	2.31	.25	1.07	.00	--	53.0	251	0
						35	11	52	2		63	7	29					2.1
09/21/74	5701	M	69 F			32	10	.44	2.6	.5	126	22	66	1.0	--	.1	287	119
	5701		21 C	7.8	465	1.60	.82	1.91	.07	.02	2.07	.46	1.86	.02	--	48.0	288	17
						36	19	.43	2		47	10	42					1.7
06/20/74	5050	M													--	--		
	5050														--	--		76
						8.1	213	.65	--	0	104	--	8.2	--	--	--		0.7
								.30		.00	1.70		.23					
10/19/73	5110	M													--	--	234	115
	5110														--	--	158	0
						8.0	270	1.60	9.0	.52	.08	.00	2.56	.17	.34	.08		0.5
								.25	18	3	81	5	.11	.08	3			
06/21/74	5050	M	64 F												--	--		
	5050		18 C	8.1	554	--	--	1.26	--	0	229	--	53	--	--	--		216
								.23		.00	3.75		1.49					0.9
10/19/73	5110	M													--	--	397	178
	5110														--	--	267	0
						7.9	440	2.45	13	1.39	.08	.00	4.29	.35	.39	.16		1.1
								.49	21	28	2		7	.8	.73			
10/19/73	5110	M													--	--	504	285
	5110														--	--	372	66
						8.0	650	3.64	25	1.00	.10	.00	4.39	.62	1.41	.56		0.6
								.54	30	15	1		63	9	20	8		
10/30/73	4203	M													--	--	260	146
	4203														--	--		
						351	1.92	.53	12	.61	.10	--	182	.27	.61	--		0.5
								.27	17	3			2.98					
10/19/73	5110	M													--	--	227	110
	5110														--	--	154	0
						8.0	260	1.50	9.0	.57	.10	.00	2.49	.25	.28	.02		0.5
								.52	25	20	3		82	8	9	1		
10/19/73	5110	M													--	--	285	130
	5110														--	--	199	0
						8.1	340	1.85	9.0	.87	.10	.00	2.90	.40	.56	.05		0.8
								.52	21	24	3		74	10	14	1		
11/07/73	4203	M													--	--	398	208
	4203														--	--		
						570	2.51	.50	19	.78	.09	--	120	1.5	133	--		0.5
								.32	16	2			1.97	.03	3.75			
10/19/73	5110	M													--	--	309	158
	5110														--	--	217	4
						8.1	400	1.95	15	.87	.10	.00	3.10	.35	.68	.08		0.7
								.47	30	21	2		74	8	16	2		
11/07/73	4203	M													--	--	209	112
	4203														--	--		
						310	1.44	.79	15	.68	.08	--	158	7.0	.41	--		0.6
								.48	26	23	3		2.59	.15				
10/19/73	5110	M													--	--	544	105
	5110														--	--	417	0
						8.0	730	1.35	9.0	.74	.08	.00	4.20	.27	3.16	.00		5.4



TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

431

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE						MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	SIO2	F	TDS SUM	TH NCH	SAR					
*****																						
		CENTRAL VALLEY REGION SAN JOAQUIN VALLEY																				
		SAN JOAQUIN COUNTY																				
5-22.01 02N/06E-26L01 M				27	12	19	5.6	.7	160	16	9.0	4.0	--	.1	223	118						
08/08/74	5701			1.35	.99	.83	.14	.02	2.62	.33	.25	.06	--	51.0	223	118	0.8					
	5701	7.8	317	41	30	25	4	1	80	10	8	2				0						
02N/06E-27B01 M				26	11	30	4.7	.8	187	13	10	1.0	--	.1	238	109						
02/28/74	5701	70 F		1.30	.90	1.31	.12	.03	3.06	.27	.28	.02	--	50.0	238	109	1.2					
	5701	21 C	7.8	36	25	36	3	1	84	7	8	1				0						
02N/06E-27H01 M				38	18	28	5.8	1.0	232	21	15	7.0	--	.2	305	172						
03/18/74	5701	70 F		1.90	1.48	1.22	.15	.03	3.80	.44	.42	.11	--	57.0	305	172	0.9					
	5701	21 C	7.8	40	31	26	3	1	79	9	9	2				0						
02N/06E-27L01 M				26	9.0	34	4.9	.9	175	16	14	1.0	--	.2	239	102						
08/08/74	5701			1.30	.74	1.48	.13	.03	2.87	.33	.39	.02	--	47.0	239	102	1.5					
	5701		7.9	39	20	41	4	1	79	9	11	1				0						
02N/06E-27P01 M				18	1.0	39	2.2	.6	145	1.0	8.0	1.0	--	.1	196	48						
05/18/74	5701	58 F		.90	.08	1.70	.06	.02	2.38	.02	.23	.02	--	54.0	196	48	2.4					
	5701	14 C	7.8	33	3	62	2	1	89	1	9	1				0						
02N/06E-29M01 M				12	12	80	1.0	0	226	12	48	.0	--	--	390	78						
10/19/73	5110			.60	.99	3.48	.03	.00	3.70	.25	1.35	.00	--	--	276	0	3.9					
	5110		8.0	12	19	68	1		70	5	25											
02N/06E-32G01 M				65	14	155	2.5	10	212	.2	147	.0	1.20	--	505	69						
06/21/74	5050	18 F	8.1	790	3.6	1.15	6.74	.06	3.47	.00	4.15	.00	--	--	438	0	8.3					
	5050	18 C	8.6	862	2	14	83	1	44	.00	52											
02N/06E-33A01 M				9.0	1.0	52	1.9	.8	157	1.0	10	1.0	--	.2	209	28						
08/08/74	5701			.45	.08	2.26	.05	.03	2.57	.02	.28	.02	--	55.0	209	28	4.4					
	5701		7.9	16	3	80	2	1	88	1	10	1				0						
02N/06E-33B01 M				12	3.0	54	1.7	1.1	169	1.0	13	1.0	--	.1	218	44						
08/08/74	5701			.60	.25	2.35	.04	.04	2.77	.02	.37	.02	--	48.0	218	44	3.6					
	5701		8.0	19	8	73	1	1	86	1	11	1				0						
02N/06E-33F01 M				20	5.0	54	1.7	.9	185	1.0	25	2.0	--	.1	253	73						
03/04/74	5701	70 F		1.00	.41	2.35	.04	.03	3.03	.02	.71	.03	--	52.0	25							

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY REGION SAN JOAQUIN VALLEY																		
5-22.01 02N/06E-34Q01 M SAN JOAQUIN COUNTY																		
10/12/73	5701				34	17	47	3.0	.3	141	3.0	97	.0	--	.1	319	152	
	5701		7.4	549	1.70 33	1.40 27	2.04 39	.08 2	.01	2.31 45	.06 1	2.74 54	.00	49.0	320	39	1.6	
12/28/74	5701	72 F			32	12	49	2.8	.3	133	3.0	85	.0	--	.2	299	129	
	5701	22 C	7.6	499	1.60 33	.99 21	2.13 44	.07 1	.01	2.18 47	.06 1	2.40 52	.00	49.0	298	20	1.9	
09/17/74	5701				35	16	49	2.4	.4	126	2.0	107	.0	--	.4	326	154	
	5701		7.7	584	1.75 33	1.32 25	2.13 40	.06 1	.01	2.07 40	.04 1	3.02 59	.00	52.0	326	50	1.7	
07/10/74	02N/06E-35B01 M																	
	5701	65 F			43	18	25	6.7	.8	226	29	22	19.0	--	.1	326	184	
	5701	18 C	7.7	513	2.15 44	1.48 30	1.09 22	.17 3	.03	3.70 70	.60 11	.62 12	.31 6	50.0	325	0	0.8	
04/25/74	02N/06E-36A01 M																	
	5701	68 F			34	17	18	7.0	.7	199	12	14	9.0	--	.2	275	152	
	5701	20 C	7.7	382	1.70 42	1.40 34	.78 19	.18 4	.02	3.26 80	.25 6	.39 10	.15 4	66.0	276	0	0.6	
09/17/74	5701				33	16	18	5.3	.5	190	12	14	5.0	--	.1	264	150	
	5701		7.6	382	1.65 42	1.32 34	.78 20	.14 4	.02	3.11 81	.25 6	.39 10	.08 2	66.0	263	0	0.6	
05/15/74	02N/06E-36D01 M																	
	5701	69 F			28	12	22	5.2	.8	179	12	9.0	6.0	--	.1	239	118	
	5701	21 C	7.8	334	1.40 40	.99 28	.96 28	.13 4	.03	2.93 82	.25 7	.25 7	.10 3	57.0	240	0	0.9	
01/16/74	02N/06E-36G01 M																	
	5701	69 F			18	6.0	21	4.4	.3	131	6.0	5.0	2.0	--	.2	187	68	
	5701	21 C	7.6	235	.90 37	.49 20	.91 38	.11 5	.01	2.15 88	.12 5	.14 6	.03 1	61.0	188	0	1.1	
03/18/74	02N/06E-36N03 M																	
	5701	69 F			31	16	22	5.0	.8	189	15	15	8.0	--	.1	267	142	
	5701	21 C	7.8	368	1.55 39	1.32 33	.96 24	.13 3	.03	3.10 78	.31 8	.42 11	.13 3	61.0	267	0	0.8	
03/18/74	02N/06E-36R03 M																	
	5701	70 F			34	15	17	5.6	.8	184	12	13	16.0	--	.1	267	146	
	5701	21 C	7.8	376	1.70 45	1.23 32	.74 19	.14 4	.03	3.02 77	.25 6	.37 9	.26 7	64.0	268	0	0.6	
00/19/73	02N/07E-07D02 M																	
	5110				40	20	15	5.0	0	238	26	10	3.0	--	--	352	182	
	5110		8.0	400	2.00 45	1.64 37	.65 15	.13 3	.00	3.90 82	.54 11	.28 6	.05 1	--	--	236	0	0.5
06/21/74	02N/07E-07Q01 M																	
	5050		7.7	285	--	--	12	--	0	160	--	6.7	--	--	--		123	
	0815		8.1	288	--	--	.52 17	--	.00	2.62	--	.19	--	--	--			0.5
06/25/74	02N/07E-25M01 M																	
	5050	66 F	7.9	225	--	--	13	--	0	121	--	4.7	--	--	--		80	
	0730	19 C	8.1	222	--	--	.57 26	--	.00	1.98	--	.13	--	--	--			0.6
06/25/74	02N/08E-13B01 M																	
	5050	64 F	7.3	220	--	--	10	--	0	103	--	5.8	--	--	--		88	
	0815	18 C	7.9	216	--	--	.44 20	--	.00	1.69	--	.16	--	--	--			0.5
06/21/74	03N/06E-13A04 M																	
	5050	68 F	7.5	660	--	--	35	--	0	322	--	42	--	--	--		294	
	0730	20 C	8.3	713	--	--	1.52 21	--	.00	5.28	--	1.18	--	--	--			0.9
00/19/73	03N/06E-15Q05 M																	
	5110				39	16	20	5.0	0	220	12	18	16.0	--	--	341	165	
	5110		8.1	410	1.95 46	1.32 31	.87 20	.13 3	.00	3.61 78	.25 5	.51 11	.26 6	--	--	234	0	0.7
06/25/74	03N/08E-20P01 M																	
	5050	69 F	7.5	225	--	--	17	--	0	119	--	7.1	--	--	--		83	
	0915	21 C	8.0	229	--	--	.74 31	--	.00	1.95	--	.20	--	--	--			0.8
06/25/74	03N/09E-06N01 M																	
	5050		7.5	142	--	--	11	--	0	59	--	4.9	--	--	--		48	
	0945		7.8	141	--	--	.48 33	--	.00	.97	--	.14	--	--	--			0.7
06/18/74	04N/06E-12C06 M																	
	5050	69 F	7.9	215	--	--	10	--	0	116	--	5.8	--	--	--		84	
	0840	21 C	8.2	211	--	--	.44 21	--	.00	1.90	--	.16	--	--	--			0.5

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B SI02	F	TDS SUM	TH NCH	SAR	
*****																		
5		CENTRAL VALLEY REGION																
5-22		SAN JOAQUIN VALLEY																
5-22.01		SAN JOAQUIN COUNTY																
10/19/73	5110				11	5.0	9.0	1.0	0	79	8.0	4.0	3.0	--	--	119	50	
	5110		7.9 140	.55	.41	.39	.03	.00	1.29	.17	.11	.05	--	--	--	80	0	0.6
				40	30	28	2		80	10	7	3						
06/18/74	5050																	
0930	5050	70 F	7.3 170	--	--	16	--	0	80	--	7.2	--	--	--	--		47	1.0
		21 C	8.0 166			.70		.00	1.31		.20							
						43												
06/18/74	5050																	
1000	5050	64 F	7.1 280	--	--	17	--	0	140	--	18	--	--	--	--		104	0.7
		18 C	8.3 276			.74		.00	2.29		.51							
						26												
06/18/74	5050																	
1115	5050	66 F	7.1 320		11	30	2.9	0	141	8.2	17	22.0	.00	--	252	98		
		19 C	8.3 337	1.05	.90	1.31	.07	.00	2.31	.17	.48	.35	--	--	181	0	1.3	
				32	27	39	2		70	5	15	11						
06/20/74	5050																	
1040	5050	68 F	7.5 1150	78	20	128	3.5	0	230	4.4	266	.1	.30	--	712	275		
		20 C	8.3 1240	3.89	1.64	5.57	.09	.00	3.77	.09	7.50	.00	--	--	613	88	3.3	
				35	15	50	1		33	1	66							
06/20/74	5050																	
1300	5050	68 F	7.5 460	--	--	29	--	0	222	--	26	--	--	--		183	0.9	
		20 C	8.3 484			1.26		.00	3.64		.73							
						26												
06/20/74	5050																	
1400	5050	68 F	7.3 210	14	8.3	14	2.9	0	84	6.6	13	12.0	.00	--	192	69		
		20 C	8.2 210	.70	.68	.61	.07	.00	1.38	.14	.37	.19	--	--	112	0	0.7	
				34	33	30	3		66	7	18	9						
06/24/74	5050																	
1015	5050	68 F	7.7 245	--	--	18	--	0	118	--	6.7	--	--	--		87	0.8	
		20 C	8.0 247			.78		.00	1.93		.19							
						31												
04/03/74	5050																	
1340	5050	71.0F	8.0	23	9.5	110	1.6	0	162	.142	42	1.7	.60	--	451	96		
		21.6C	7.9 720	1.15	.78	4.79	.04	.00	2.66	2.96	1.18	.03	--	--	410	0	4.9	
				17	12	71	1		39	43	17							
04/03/74	5050																	
1135	5050	74.0F	8.0	39	17	133	2.6	0	153	217	72	.0	.60	--	594	167		
		23.3C	8.1 951	1.95	1.40	5.79	.07	.00	2.51	4.52	2.03	.00	--	--	556	42	4.5	
				21	15	63	1		28	50	22							
04/03/74	5050																	
1450	5050	68.0F	8.0	46	17	100	2.2	0	145	148	89	1.3	.40	--	530	184		
		20.0C	7.7 860	2.30	1.40	4.35	.06	.00	2.38	3.08	2.51	.02	--	--	475	66	3.2	
				28	17	54	1		30	39	31							
04/03/74	5050																	
1410	5050	66.0F	7.8	38	16	96	2.2	0	145	160	60	1.8	.40	--	493	164		
		18.9C	7.8 781	1.90	1.32	4.18	.06	.00	2.38	3.33	1.69	.03	--	--	446	42	3.3	
				25	18	56	1		32	45	23							
06/19/74	5050																	
1220	5050	66 F	7.9 420	--	--	33	--	0	162	--	25	--	--	--		143	1.2	
		19 C	8.3 446			1.44		.00	2.66		.71							
						33												
06/19/74	5050																	
1545	5050	66 F	7.3 325	--	--	21	--	0	147	--	4.5	--	--	--		128	0.8	
		19 C	8.3 347			.91		.00	2.41		.13							
						26												
06/19/74	5050																	
1315	5050	68 F	7.7 375		15	15	3.9	0	150	24	12	34.0	.00	--	288	160		
		20 C	8.3 400	1.95	1.23	.65	.10	.00	2.46	.50	.34	.55	--	--	217	36	0.5	
				50	31	17	3		64	13	9	14						
06/19/74	5050																	
1450	5050	66 F	7.7 280	--	--	22	--	0	170	--	3.7	--	--	--		103	0.9	
		19 C	8.3 288			.96		.00	2.79		.10							
						32												
06/19/74	5050																	
1030	5050	67 F	7.7 1050	--	--	90	--	0	210	--	177	--	--	--		367	2.0	
		19 C	8.3 1150			3.92		.00	3.44		4.99							
						35												
06/19/74	5050																	
0930	5050	67 F	7.7 1600	--	--	161	--	0	138	--	264	--	--	--		581	2.9	
		19 C	8.2 1860			7.00		.00	2.26		7.44							
						38												

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
CENTRAL VALLEY REGION																		
SAN JOAQUIN VALLEY																		
SAN JOAQUIN COUNTY																		
06/19/74 0840	5050	67	F 7.7	800	--	--	80	--	0	206	--	70	--	--	--	274		
	5050	19	C 8.3	886			3.48	.00	3.38		1.97		--	--			2.1	
EAST CONTRA COSTA AREA																		
07/19/74 1030	5050	60	F 7.7	1950	134	55	152	3.5	0	300	307	212	48.0	1.10	--	1090	561	
	5050	16	C 7.9	1700	6.69	4.52	6.61	.09	.00	4.92	6.39	5.98	.77		--	1060	315	2.8
LOWER LAKE																		
07/18/74 1430	5050		7.9	1125	32	16	176	3.1	7.0	326	114	91	.1	2.50	--	608	148	
	5050		8.4	1050	1.60	1.32	7.66	.08	.23	5.34	2.37	2.57	.00		--	602	0	6.3
12N/07W-01F01																		
07/10/74 1255	5050	70.0F	6.5	180	--	--	--	--	--	--	--	--	--	--	--			
		21.1C																
12N/07W-01M02																		
07/10/74 1240	5050	61.0F	6.1	325	--	--	--	--	--	--	--	8.6	19.0	--	--		128	
	5050	16.1C		350								.24	.31		--			
12N/07W-13M01																		
07/10/74 1155	5050	60.0F	6.4	650	--	--	--	--	--	--	--	--	--	--	--			
		15.5C													--			
12N/07W-14F01																		
07/10/74 1205	5050	68.0F	7.1	3000	--	--	--	--	--	--	--	--	--	--	--			
		20.0C													--			

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLE# LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F	TDS SUM	TH NCH	SAR	
LAHONTAN REGION SURPRISE VALLEY																			
6 6-61																			
07/17/74 1805	5050	40N/16E-11G01 55.0F 12.8C	M	7.9	218	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1625	5050	40N/16E-36F01 59.0F 15.0C	M	7.2	360	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1635	5050	40N/16E-36G01 56.0F 13.3C	M	7.3	320	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1730	5050	40N/17E-20C01 58.0F 14.4C	M	8.0	380	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1515	5050 5050	41N/16E-09A02 60.0F 15.5C	M	7.9 8.2	255 245	32 1.60 65	5.1 .42 17	10 .44 18	.6 .02 1	0 .00	135 2.21 88	5.9 .12 5	.0 .00	12.0 .19 8	.00 --	--	154 132	101 0	0.4
07/17/74 1516	5050 5050	41N/16E-25C03 59.0F 15.0C	M	7.8 8.1	173 165	5.3 .26 16	.5 .04 2	30 1.31 79	1.6 .04 2	0 .00	80 1.31 80	12 .25 15	2.4 .07 4	.3 .00	.20 --	--	128 92	15 0	3.3
07/17/74 1550	5050	41N/16E-35D02 54.0F 12.2C	M	7.2	125	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1600	5050	41N/16E-35F01 64.0F 17.8C	M	7.0	165	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1835	5050 5050	42N/16E-04P01 57.0F 13.9C	M	7.1 7.7	425 432	44 2.20 47	18 1.48 31	23 1.00 21	1.0 .03 1	0 .00	240 3.93 87	16 .33 7	6.2 .17 4	6.3 .10 2	.10 --	--	245 233	182 0	0.7
07/17/74 1210	5050	42N/16E-05F01 57.0F 13.9C	M	7.7	330	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1320	5050	42N/16E-08E01 58.0F 14.4C	M	7.7	285	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1330	5050 5050	42N/16E-08M02 59.0F 15.0C	M	7.3 8.2	255 249	29 1.45 57	8.6 .71 28	8.7 .38 15	.7 .02 1	0 .00	150 2.46 94	4.1 .09 3	.0 .00	5.0 .08 3	.00 --	--	164 130	108 0	0.4
07/17/74 1430	5050 5050	42N/16E-29802 52.0F 11.1C	M	7.2 8.2	205 196	26 1.30 60	5.1 .42 20	9.4 .41 19	.6 .02 1	0 .00	119 1.95 95	3.4 .07 3	.0 .00	2.5 .04 2	.00 --	--	137 106	86 0	0.4
07/17/74 1410	5050 5050	42N/16E-29G01 52.0F 11.1C	M	7.1 8.1	185 174	22 1.10 58	3.6 .30 16	11 .48 25	.3 .01 1	0 .00	102 1.67 94	3.8 .08 4	.0 .00	2.0 .03 2	.00 --	--	116 93	70 0	0.6
07/17/74 1445	5050	42N/16E-34F01 68.0F 20.0C	M	8.3	300	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1030	5050	43N/16E-05L01 58.0F 14.4C	M	7.4	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1110	5050	43N/16E-07A03 58.0F 14.4C	M	6.8	230	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1100	5050	43N/16E-08D01 61.0F 16.1C	M	6.9	330	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HC03	SO4	CL	NO3	B	F	TDS SUM	TM NCH	SAR	
.....																		
6		LAHONTAN REGION																
6-01		SURPRISE VALLEY																
07/17/74 1135	5050	43N/16E-20801	M	73.0F 22.6C	7.9	290	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1150	5050	43N/16E-32K01	M	67.0F 19.4C	8.4	260	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 1155	5050	43N/16E-33M03	M	65.0F 18.3C	7.3	540	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 0955	5050	44N/15E-36F02	M	59.0F 15.0C	6.7	110	14	3.2	4.5	.9	0	75	1.6	.0	.3	.00	89	48
	5050				7.5	107	.70 59	.26 22	.20 17	.02 2	.00	1.23 98	.03 2	.00 2	.00	--	61	0
07/17/74 1055	5050	44N/16E-31801	M	51.0F 10.5C	6.7	420	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 0855	5050	45N/16E-17D01	M	61.0F 16.1C	7.1	260	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 0925	5050	45N/16E-19Q01	M	65.0F 18.3C	7.9	300	--	--	27	--	0	195	--	4.4	--	--	--	107
	5050				8.1	310	1.17 35		.20	.02	.00	3.20		.12		--	--	1.1
07/17/74 0725	5050	46N/16E-08R02	M	66.0F 18.9C	7.4	220	--	--	--	--	--	--	--	--	--	--	--	--
07/17/74 0725	5050	46N/16E-08R03	M	54.0F 12.2C	6.5	365	30	21	12	2.1	0	133	13	5.8	75.0	.00	292	161
	5050				7.9	396	1.50 39	1.73 46	.52 14	.05 1	.00	2.18 57	.27 7	.16 4	1.21 32	--	224	53
07/17/74 0800	5050	46N/16E-23B01	M	55.0F 12.8C	7.9	340	--	--	--	--	--	--	--	--	--	--	--	--
6-02		MADELINE PLAIN																
07/18/74 1130	5050	34N/13E-18E01	M	58.0F 14.4C	8.0	160	--	--	--	--	--	--	--	--	--	--	--	--
07/18/74 1340	5050	34N/14E-23E01	M	66.0F 18.9C	7.6	255	--	--	--	--	--	--	--	--	--	--	--	--
07/18/74 1325	5050	34N/15E-21L01	M	58.0F 14.4C	7.6	145	--	--	--	--	--	--	--	--	--	--	--	--
07/18/74 1000	5050	35N/13E-25M01	M	57.0F 13.9C	7.3	1000	--	--	--	--	--	--	--	48	78.0	--	--	438
	5050					1000								1.35	1.26	--	--	
07/18/74 1020	5050	37N/13E-16A01	M	58.0F 14.4C	7.6	425	--	--	--	--	--	--	--	18	5.8	--	--	188
	5050					453								.51	.09	--	--	
07/18/74 1030	5050	37N/13E-20Q01	M	54.0F 12.2C	7.4	2850	--	--	--	--	--	--	--	--	--	--	--	--
6-03		WILLOW CREEK VALLEY																
07/30/74 1310	5050	31N/12E-13M01	M	55.0F 12.8C	7.9	270	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	PERCENT REACTANCE VALUE	B	F	TD5 SUM	TH NCH	SAR
.....																		
6-03		LAHONTAN REGION WILLOW CREEK VALLEY																
07/30/74 1250	5050	62.0F 16.7C	7.4	385	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6-04		MONEY LAKE VALLEY																
08/01/74 1045	5050 5050	67.0F 19.4C	7.2	355 383	--	--	4-	--	--	--	--	9.4 .27	19.0 .31	--	--		111	
08/01/74 0930	5050 5050	63.0F 17.2C	7.3	405 451	--	--	--	--	--	--	--	8.5 .24	--	.00	--		172	
08/01/74 0950	5050	68.0F 20.0C	7.9	275	--	--	--	--	--	--	--	--	--	--	--			
08/01/74 1015	5050 5050	72.0F 22.2C	6.8	200 199	--	--	--	--	--	--	--	5.7 .16	8.2 .13	--	--		75	
07/31/74 0810	5050 5050	73.0F 22.8C	8.2 8.3	510 534	12 .60 11	3.4 .28 5	93 4.05 76	17 .43 8	0 .00	232 3.80 71	44 .92 17	19 .54 10	6.5 .10 2	.20	--	328 309	44 0	6.1
07/31/74 1240	5050 5050	66.0F 18.9C	7.1 7.3	435 466	30 1.50 32	12 .99 21	47 2.04 44	4.0 .10 2	0 .00	184 3.02 65	58 1.21 26	14 .39 8	1.4 .02	.20	--	304 257	126 0	1.8
07/31/74 1150	5050 5050	71.0F 21.6C	7.1 7.3	650 660	50 2.50 37	15 1.23 18	66 2.87 43	3.8 .10 1	0 .00	238 3.90 58	101 2.10 31	19 .54 8	11.0 .18 3	.40	--	402 383	187 0	2.1
07/31/74 1030	5050 5050	64.0F 17.8C	7.2 7.7	960 985	41 2.05 22	11 .90 10	144 6.26 67	3.4 .09 1	0 .00	264 4.33 47	56 1.17 13	43 1.21 13	156 2.52 27	.40	--	643 585	148 0	5.2
08/01/74 0810	5050 5050	61.0F 16.1C	6.6	280 294	--	--	--	--	--	--	--	12 .34	18.0 .29	--	--		120	
08/01/74 0830	5050	66.0F 18.9C	6.1	180	--	--	--	--	--	--	--	--	--	--	--			
08/01/74 0845	5050 5050	66.0F 18.9C	6.7 7.2	145 147	14 .70 51	2.7 .22 16	8.2 .36 26	3.7 .09 7	0 .00	49 .80 55	8.2 .17 12	1.4 .04 3	27.0 .44 30	.00	--	144 89	46 6	0.5
07/31/74 1330	5050 5050	63.0F 17.2C	7.8 7.8	680 676	13 .65 10	5.2 .43 6	130 5.66 83	2.6 .07 1	0 .00	254 4.16 61	72 1.50 22	38 1.07 16	3.4 .05 1	.40	--	432 389	54 0	7.7
07/31/74 1340	5050 5050	61.0F 16.1C	8.1 8.3	1215 1200	17 .85 7	6.2 .51 4	242 10.53 88	1.5 .04	0 .00	351 5.75 48	174 3.62 30	91 2.57 22	.1 .00	.80	--	750 705	68 0	12.8
08/01/74 0720	5050	61.0F 16.1C	6.5	200	--	--	--	--	--	--	--	--	--	--	--			
08/01/74 0840	5050 5050	70.0F 21.1C	6.6 7.2	205 208	21 1.05 50	5.0 .41 19	14 .61 29	2.0 .05 2	0 .00	79 1.29 64	5.6 .12 6	12 .34 17	16.0 .26 13	.00	--	151 114	73 9	0.7
07/31/74 1240	5050	56.0F 13.3C	8.0	1240	--	--	--	--	--	--	--	--	--	--	--			
07/31/74 1450	5050	71.0F 21.6C	7.5	1450	--	--	--	--	--	--	--	--	--	--	--			



TABLE E-1 (CONTINUED)  
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO3	HCO3	SO4	CL	PERCENT REACTANCE VALUE	NO3	B	F	TDS SUM	TH NCH	SAR				
.....																						
D 6-04		LAMONTAN REGION HONEY LAKE VALLEY																				
07/31/74 1355	28N/14E-08A01	M																				
	S050	64.0F 17.8C	7.6	380 394	--	--	--	--	--	--	--	13 .37	--	.20	--			21				
07/31/74 1435	28N/14E-17B01	M																				
	S050	61.0F 16.1C	7.2 7.9	845 829	70 3.79 40	28 2.30 24	71 3.09 33	8.2 .21 2	0 .00	457 7.49 81	27 .56 6	25 .71 8	30.0 .48 5	.10	--	540 490	306 0	1.8				
07/31/74 1430	28N/14E-17B02	M																				
	S050	62.0F 16.7C	7.9	330	--	--	--	--	--	--	--	--	--	--	--							
07/31/74 1155	28N/16E-08B01	M																				
	S050	208.0F 97.7C	8.4 8.3	1800 1300	17 .85 7	.8 .07 1	238 10.35 91	6.1 .16 1	0 .00	49 .80 7	304 6.33 55	156 4.40 38	.0 .00	3.80	--	850 750	46 6	15.3				
07/31/74 1225	28N/17E-18K01	M																				
	S050	64.0F 17.8C	8.3	265	--	--	--	--	--	--	--	--	--	--	--							
07/30/74 1515	29N/12E-02P06	M																				
	S050	61.0F 16.1C	7.5	460	--	--	--	--	--	--	--	--	--	--	--							
07/31/74 1745	29N/12E-04G01	M																				
	S050	80.0F 26.6C	8.3 8.2	680 741	--	--	139 6.05 88	--	0 .00	76 1.25	--	59 1.66	--	--	--			40		9.6		
07/30/74 1200	29N/12E-05E01	M																				
	S050	70.0F 21.1C	7.9 8.2	600 614	24 1.20 21	2.4 .20 3	100 4.35 75	2.8 .07 1	0 .00	121 1.98 34	125 2.60 44	45 1.27 22	.1 .00	1.20	1.0	398 360	70 0	5.2				
07/30/74 1145	29N/12E-05E02	M																				
	S050	73.0F 22.8C	7.3 7.8	255 244	24 1.20 46	9.0 .74 28	13 .57 22	3.9 .10 4	0 .00	143 2.34 86	13 .27 10	2.4 .07 3	2.1 .03 1	.00	--	194 138	97 0	0.6				
07/30/74 1610	29N/12E-15A01	M																				
	S050	58.0F 14.4C	6.9	215	--	--	--	--	--	--	--	--	--	--	--							
07/31/74 0825	29N/13E-01N01	M																				
	S050	65.0F 18.3C	7.8	765	--	--	--	--	--	--	--	--	--	--	--							
07/30/74 1430	29N/13E-04M01	M																				
	S050	77.0F 25.0C	7.6 7.9	225 232	9.2 .45 21	.5 .04 2	36 1.57 71	6.0 .15 7	0 .00	116 1.90 83	12 .25 11	5.3 .15 7	.2 .00	.20	--	203 126	25 0	3.1				
07/30/74 1545	29N/13E-06K01	M																				
	S050	63.0F 17.2C	7.5	290	--	--	--	--	--	--	--	--	--	--	--							
07/30/74 1600	29N/13E-16A03	M																				
	S050	75.0F 23.9C	7.4 7.7	3250 3340	220 10.98 28	117 9.62 24	438 19.05 48	6.2 .16	0 .00	354 5.80 14	1540 32.06 80	77 2.17 5	2.9 .05	1.80	--	2740 2577	1030 741	5.9				
07/30/74 1510	29N/13E-17C05	M																				
	S050	64.0F 17.8C	7.3 7.6	405 422	26 1.40 32	14 1.15 27	39 1.70 39	2.6 .07 2	0 .00	188 3.08 70	51 1.06 24	10 .28 6	.3 .00	.10	--	273 237	130 0	1.5				
08/01/74 0730	29N/13E-23F01	M																				
	S050	57.0F 13.9C	7.3 7.9	295 295	19 .95 30	8.9 .73 23	32 1.39 44	4.4 .11 3	0 .00	175 2.87 88	5.6 .12 4	4.3 .12 4	10.0 .16 5	.10	--	220 170	84 0	1.5				
08/01/74 0800	29N/13E-24D02	M																				
	S050	70.0F 21.1C	7.3 7.6	455 478	48 2.40 49	19 1.56 32	18 .78 16	7.2 .18 4	0 .00	221 3.62 76	9.7 .20 4	10 .28 6	41.0 .66 14	.00	--	324 262	198 17	0.6				
07/31/74 0955	29N/14E-04N01	M																				
	S050	68.0F 20.0C	7.7	675	--	--	--	--	--	--	--	--	--	--	--							

## MINERAL ANALYSES OF GROUND WATER

440

TABLE E-2  
MINOR ELEMENT ANALYSIS OF GROUND WATER

Sampler and Lab Agency Codes

5050 - Department of Water Resources  
5701 - California Water Service Company

Abbreviations

TIME	- Pacific Standard Time on a 24-hour clock
EC	- Electrical conductance in micromhos at 25 <sup>o</sup> Celsius
TEMP	- Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
PH	- Measure of acidity (<7) or alkalinity (>7) of water
CHROM (ALL)	- All chromium
CHROM (HEX)	- Hexavalent chromium
D	- Dissolved
T	- Total

TABLE E-2 (CONTINUED)  
MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS IN MILLIGRAMS BARIUM CADMIUM	CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
CENTRAL VALLEY REGION COYOTE VALLEY											
5-18 11N/06W-29M01 M											
08/05/74 1545	5050 5050		590	65 F 7.9	0.00 T	-- 0.00 T	0.00 T --	0.00 T 0.03 T	0.0 T 0.00 T	-- --	-- 0.01 T
5-19 10N/07W-03M01 M											
COLLAYOMI VALLEY											
08/05/74 1300	5050 5050		225	67 F 7.5	0.01 T	-- 0.00 T	0.00 T --	0.00 T 0.15 T	0.00 T 0.04 T	-- --	-- 0.01 T
5-21 5-21.01 25N/02W-04M01 M											
SACRAMENTO VALLEY TEHAMA COUNTY											
06/06/74 1130	5050 5050		280	74.0 F 6.5	0.01 T	-- --	-- --	0.02 T 0.01 T	0.01 T 0.00 T	-- 0.00 T	-- 3.1 T
5-21.03 18N/04E-21P01 M											
BUTTE COUNTY											
05/21/74 0830	5050 5050		300	65.0 F 7.3	0.00 T	-- --	-- --	0.05 T 0.01 T	0.00 T 0.00 T	-- 0.00 T	-- 0.05 T
22N/01E-13E01 M											
01/14/74 5701	5701			68.0 F	--	0.0 D --	-- --	0.00 D 0.02 D	-- 0.00 D	-- --	-- 0.05 D
22N/01E-13M04 M											
10/19/73 5701	5701			66.0 F	--	0.0 D --	-- --	0.00 D 0.05 D	-- 0.00 D	-- --	-- 0.00 D
22N/01E-22A01 M											
10/18/73 5701	5701			60.0 F	--	0.0 D --	-- --	0.00 D 0.00 D	-- 0.00 D	-- --	-- 0.02 D
22N/01E-23L01 M											
10/19/73 5701	5701			60.0 F	--	0.0 D --	-- --	0.00 D 0.00 D	-- 0.00 D	-- --	-- 0.10 D
22N/01E-24B01 M											
01/14/74 5701	5701			63.0 F	--	0.0 D --	-- --	0.00 D 0.00 D	-- 0.00 D	-- --	-- 0.05 D
22N/01E-24N01 M											
10/19/73 5701	5701			60.0 F	--	0.0 D --	-- --	0.00 D 0.01 D	-- 0.00 D	-- --	-- 0.00 D
22N/01E-25A01 M											
10/19/73 5701	5701			59.0 F	--	0.0 D --	-- --	0.00 D 0.02 D	-- 0.00 D	-- --	-- 0.04 D
22N/01E-25C01 M											
01/14/74 5701	5701			60.0 F	--	0.0 D --	-- --	0.00 D 0.00 D	-- 0.00 D	-- --	-- 0.07 D
01/16/74 5701	5701			70.0 F	--	0.0 D --	-- --	0.00 D 0.04 D	-- 0.11 D	-- --	-- 0.11 D
22N/01E-31Q01 M											
01/14/74 5701	5701			68.0 F	--	0.0 D --	-- --	0.00 D 0.04 D	-- 0.01 D	-- --	-- 0.05 D
22N/01E-35E01 M											
10/20/73 5701	5701			58.0 F	0.0015 D	0.0 D 0.000 D	0.004 D --	0.00 D 0.00 D	0.000 D 0.00 D	0.0000 D 0.0012 D	-- 0.02 D
22N/02E-18N01 M											
01/14/74 5701	5701			66.0 F	--	0.0 D --	-- --	0.00 D 0.02 D	-- 0.00 D	-- --	-- 0.02 D
5-21.04 17N/03W-33R01 M											
COLUSA COUNTY											
05/31/74 0850	5050 5050		1100	72.0 F 7.4	0.00 T	-- --	-- --	0.12 T 0.04 T	0.02 T 0.09 T	-- 0.00 T	-- 0.02 T
5-21.05 11N/03E-14R01 M											
SUTTER COUNTY											
07/23/74 1345	5050 5050		1050	64 F 8.1	0.02 T	-- 0.00 T	0.00 T --	0.00 T 0.15 T	0.0 T 0.17 T	-- --	-- 0.01 T
5-21.06 14N/05E-21Q01 M											
YUBA COUNTY											
07/01/74 1330	5050 5050		1300	68 F 7.2	0.01 T	-- 0.00 T	0.00 T --	0.00 T 0.06 T	0.0 T 0.03 T	-- --	-- 0.01 T
15N/03E-13J03 M											
07/26/74 5701	5701				0.0088 T	0.025 T 0.000 T	0.002 T --	-- --	0.000 T --	0.0000 T 0.0004 T	-- --

TABLE E-2 (CONTINUED)  
MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS PER LITER CHROM (ALL) CHROM (HEX)	COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
CENTRAL VALLEY REGION SACRAMENTO VALLEY YUBA COUNTY											
CONTINUED											
03/01/74	5701	5701			0.0051 T	--	0.000 T	0.00 T	0.000 T	0.0000 T	-- 0.01 T
5-21.07 11N/06E-16M01 M PLACER COUNTY											
06/25/74	5050	5050	325	69 F 7.1	0.02 T	--	0.00 T	0.00 T	0.00 T	--	-- 0.00 T
5-21.08 05N/05E-10C02 M SACRAMENTO COUNTY											
08/18/74	5050	5050	355	66 F 7.7	0.05 T	--	0.00 T	0.00 T	0.00 T	--	-- 0.01 T
06N/07E-23A01 M											
08/12/74	5050	5050	198	71 F 7.3	0.01 T	--	0.01 T	0.00 T	0.00 T	--	-- 0.00 T
07N/05E-07C01 M											
06/12/74	5050	5050	230	67 F 7.7	0.02 T	--	0.00 T	0.00 T	0.00 T	--	-- 0.00 T
07N/06E-01A01 M											
06/24/74	5050	5050	210	70 F 7.7	0.00 T	--	0.00 T	0.00 T	0.00 T	--	-- 0.01 T
08N/07E-18E01 M											
06/14/74	5050	5050	165	69 F 7.7	0.00 T	--	0.00 T	0.00 T	0.00 T	--	-- 0.00 T
5-21.11 07N/01E-24C02 M SOLANO COUNTY											
09/05/74	5701	5701			0.0000 T	0.32 T	0.011 T	0.00 T	0.00 T	0.0002 T	-- 0.10 T
06N/01W-23L01 M											
07/10/74	5050	5050	650	67 F 7.7	0.00 T	--	0.02 T	0.03 T	0.0 T	--	-- 0.02 T
5-22 5-22.01 01N/06E-02M01 M SAN JOAQUIN VALLEY SAN JOAQUIN COUNTY											
05/02/74	5701	5701			0.0154 T	--	0.001 T	--	--	0.0000 T	--
01N/06E-11K01 M											
01/17/74	5701	5701		67 F	0.026 T	0.1 T	0.002 T	0.00 T	0.005 T	0.0000 T	-- 0.06 T
01N/07E-04F01 M											
08/08/74	5701	5701			0.083 T	0.08 T	0.003 T	0.00 T	0.00 T	0.0007 T	-- 0.00 T
01N/07E-05N01 M											
08/08/74	5701	5701			0.012 T	0.15 T	0.004 T	--	0.00 T	0.0003 T	--
01N/07E-30E01 M											
05/03/74	5701	5701			0.0148 T	--	0.000 T	--	--	0.0000 T	--
02N/06E-22B01 M											
05/02/74	5701	5701			0.0066 T	0.000 T	0.005 T	0.37 T	0.010 T	--	-- 0.01 T
02N/06E-22B01 M											
03/15/74	5701	5701			0.0027 T	0.000 T	0.003 T	0.00 T	0.000 T	0.0007 T	-- 0.00 T
02N/06E-32B01 M											
06/21/74	5050	5050	790	65 F 8.1	0.02 T	0.00 T	0.00 T	0.00 T	0.0 T	--	-- 0.01 T
02N/06E-33F01 M											
05/20/74	5701	5701			0.0210 T	--	0.001 T	0.12 T	--	--	-- 0.23 T
02N/06E-33B01 M											
05/20/74	5701	5701			0.0334 T	--	0.001 T	0.003 T	--	--	-- 0.03 T
02N/06E-33N01 M											
05/20/74	5701	5701			0.0248 T	0.000 T	0.000 T	0.01 T	0.000 T	0.0000 T	-- 0.01 T

TABLE E-2 (CONTINUED)  
MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
5 5-22 5-22.01 02N/06E-34801 M					CENTRAL VALLEY REGION SAN JOAQUIN VALLEY SAN JOAQUIN COUNTY						CONTINUED
06/06/74	5701 5701				0.0120 T	-- 0.000 T	0.004 T --	0.01 T --	0.000 T --	0.0010 T --	-- 0.02 T
02N/06E-36A01 M											
04/29/74	5701 5701				0.0000 T	-- 0.000 T	0.008 T --	0.00 T --	0.000 T --	0.0008 T 0.0008 T	-- 0.00 T
04N/09E-17E02 M											
06/18/74	5050 1115		320	66 F 7.1	0.01 T	-- 0.00 T	0.01 T --	0.00 T 0.05 T	0.00 T 0.00 T	-- --	-- 0.21 T
01S/06E-02D04 M											
06/20/74	5050 1040		1150	68 F 7.5	0.04 T	-- 0.00 T	0.00 T --	0.00 T 0.05 T	0.0 T 0.31 T	-- --	-- 0.00 T
01S/09E-11J01 M											
06/20/74	5050 1400		210	68 F 7.3	0.01 T	-- 0.00 T	0.01 T --	0.00 T 0.05 T	0.00 T 0.00 T	-- --	-- 0.28 T
02S/06E-20K01 M											
04/03/74	5050 1340			71 F 8.0	--	-- --	-- --	-- 0.80 T	-- 0.15 T	-- --	-- --
02S/06E-20L01 M											
04/03/74	5050 1135			74 F 8.0	--	-- --	-- --	-- 0.52 T	-- 0.10 T	-- --	-- --
02S/06E-20R01 M											
04/03/74	5050 1450			68 F 8.0	--	-- --	-- --	-- 0.11 T	-- 0.17 T	-- --	-- --
02S/06E-20R03 M											
04/03/74	5050 1410			66 F 7.8	--	-- --	-- --	-- 0.16 T	-- 0.16 T	-- --	-- --
02S/08E-20J02 M											
06/19/74	5050 1315		375	68 F 7.7	0.00 T	-- 0.00 T	0.01 T --	0.00 T 0.03 T	0.00 T 0.00 T	-- --	-- 0.00 T
5-22.51 01S/03E-03M01 M					EAST CONTRA COSTA AREA						
07/18/74	5050 1430		1125	72 F 7.9	0.00 T	-- 0.00 T	0.00 T --	0.01 T 0.58 T	0.0 T 0.30 T	-- --	-- 0.49 T
6 6-04 28N/14E-08A01 M					LAHONTAN REGION MONEY LAKE VALLEY						
07/31/74	5050 1355		380	64.0F 7.6	0.01 T	-- --	-- --	-- --	-- --	-- --	-- --
29N/12E-04G01 M											
07/31/74	5050 1745		680	80.0F 8.3	0.02 T	-- --	-- --	-- --	-- --	-- --	-- --
29N/13E-16A03 M											
07/30/74	5050 1600		3250	75.0F 7.4	--	0.00 T	--	0.04 T 0.69 T	0.00 T 0.06 T	-- --	-- 0.49 T
29N/14E-17Q01 M											
07/31/74	5050 1540		1480	68.0F 8.3	1.4 T	-- --	-- --	-- --	-- --	-- --	-- --
29N/14E-18R01 M											
07/31/74	5050 1555		1275	58.0F 8.0	0.36 T	-- --	-- --	-- --	-- --	-- --	-- --

TABLE E-3

SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

Sampler and Lab Agency Codes

5050 - Department of Water Resources

5701 - California Water Service Company

Abbreviations

TIME - Pacific Standard Time on a 24-hour clock

EC - Electrical conductance in micromhos at 25<sup>o</sup> Celsius

TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)

PH - Measure of acidity (<7) or alkalinity (>7) of water

D - Dissolved

T - Total

TABLE E-3 (CONTINUED)  
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ALUMINUM	CONSTITUENTS IN MILLIGRAMS PER LITER ANTIMONY BERYLLIUM	BISMUTH COBALT	GALLIUM GERMANIUM	LITHIUM MOLYBDENUM	NICKEL STRONTIUM	TITANIUM VANADIUM
5 5-21 5-21.03 22N/01E-13E01 M CENTRAL VALLEY REGION SACRAMENTO VALLEY BUTTE COUNTY											
01/14/74	5701 5701			68.0F	--	--	--	--	0.006 D	-- 0.16 D	--
10/19/73	5701 5701			66.0F	--	--	--	--	0.000 D	-- 0.14 D	--
10/10/73	5701 5701			60.0F	--	--	--	--	0.000 D	-- 0.06 D	--
10/19/73	5701 5701			60.0F	--	--	--	--	0.000 D	-- 0.13 D	--
01/14/74	5701 5701			63.0F	--	--	--	--	0.000 D	-- 0.14 D	--
10/19/73	5701 5701			60.0F	--	--	--	--	0.000 D	-- 0.14 D	--
10/19/73	5701 5701			59.0F	--	--	--	--	0.000 D	-- 0.17 D	--
01/14/74	5701 5701			60.0F	--	--	--	--	0.000 D	-- 0.17 D	--
01/16/74	5701 5701			70.0F	--	--	--	--	0.000 D	-- 0.10 D	--
01/14/74	5701 5701			68.0F	--	--	--	--	0.000 D	-- 0.14 D	--
10/20/73	5701 5701			58.0F	--	--	--	--	0.000 D	-- 0.15 D	--
01/14/74	5701 5701			66.0F	--	--	--	--	0.008 D	-- 0.17 D	--



Appendix F  
WASTE WATER DATA

Appendix F, "Waste Water Data", which appeared in certain volumes of Bulletin No. 130 series, has been discontinued. For information regarding waste water, the reader is referred to the recently reactivated Bulletin No. 68 series: "Inventory of Waste Water Production and Waste Water Reclamation Practices in California".

Please note the data presented in Bulletin No. 68 are on a calendar year basis rather than a water year basis as is the case in Bulletin No. 130.

